Floating Office Rotterdam

Vessel for Change



POWERHOUSE

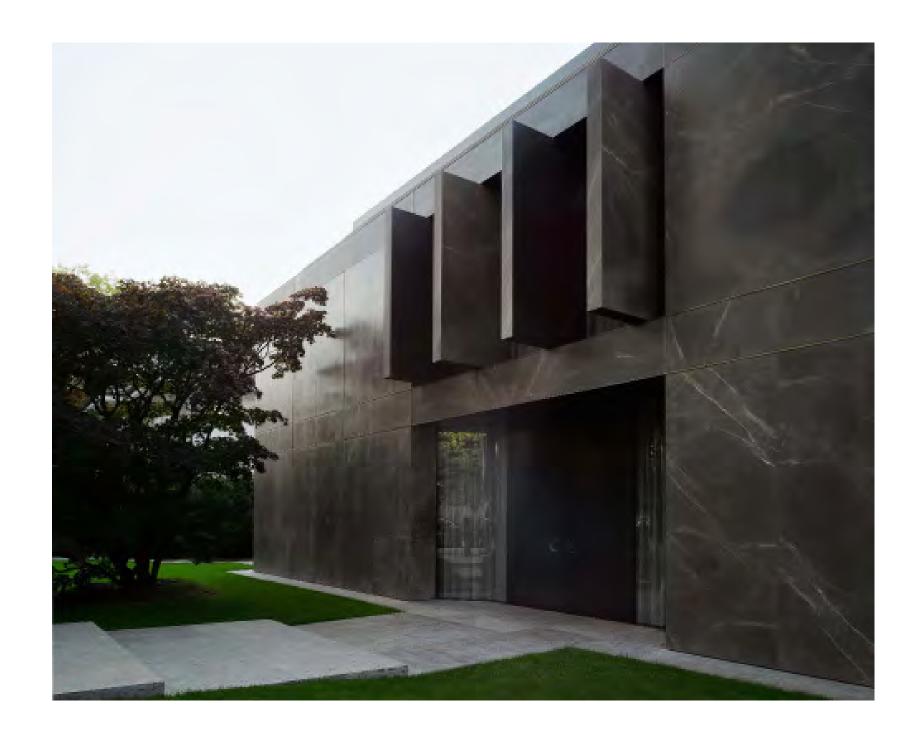
Our projects arise from the collective intelligence of everyone involved.'

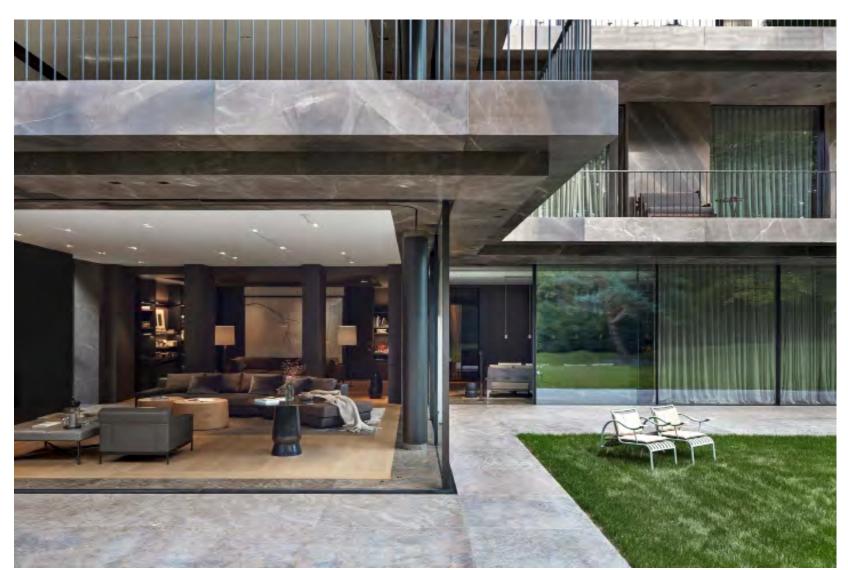


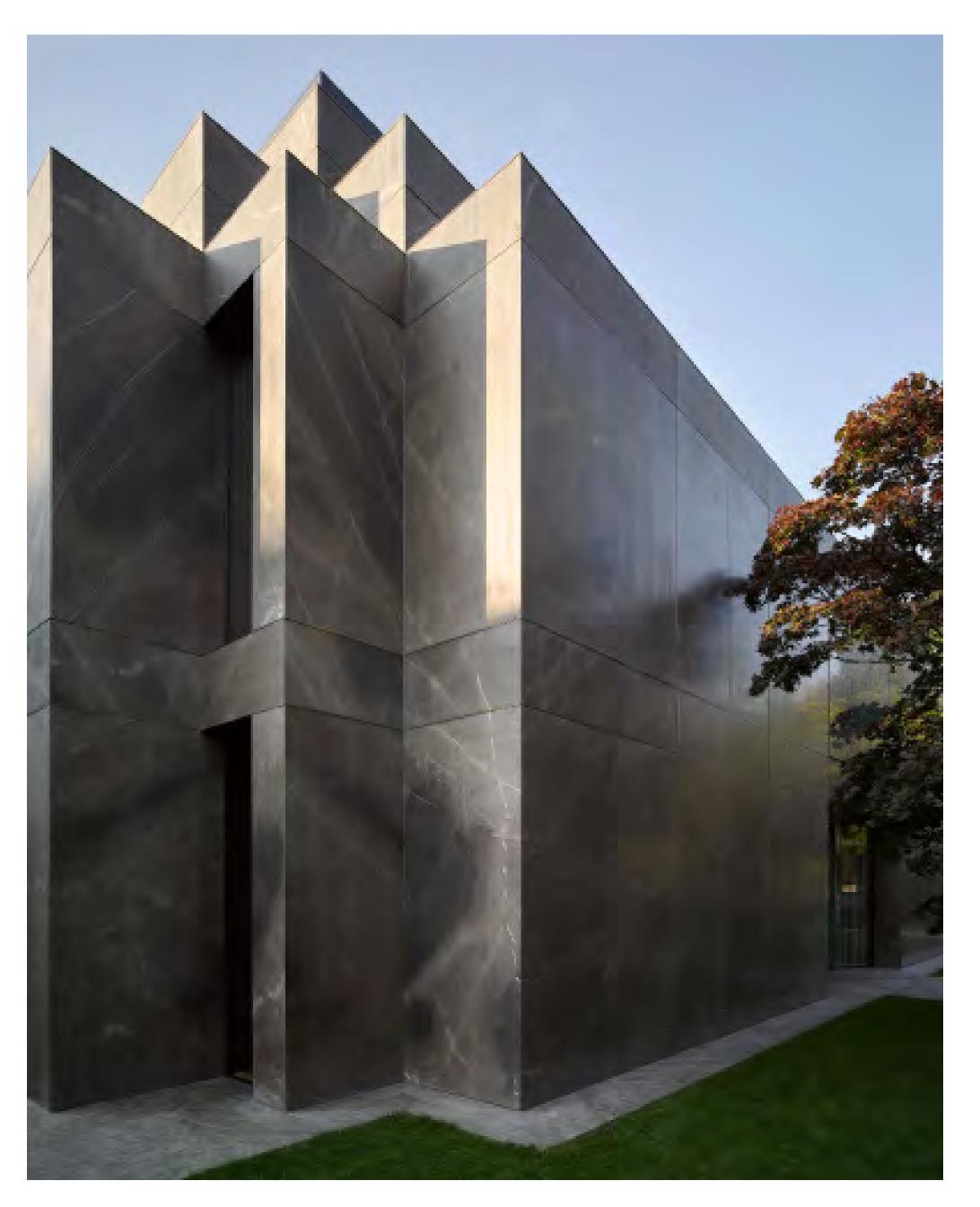
Nanne de Ru Founding Partne



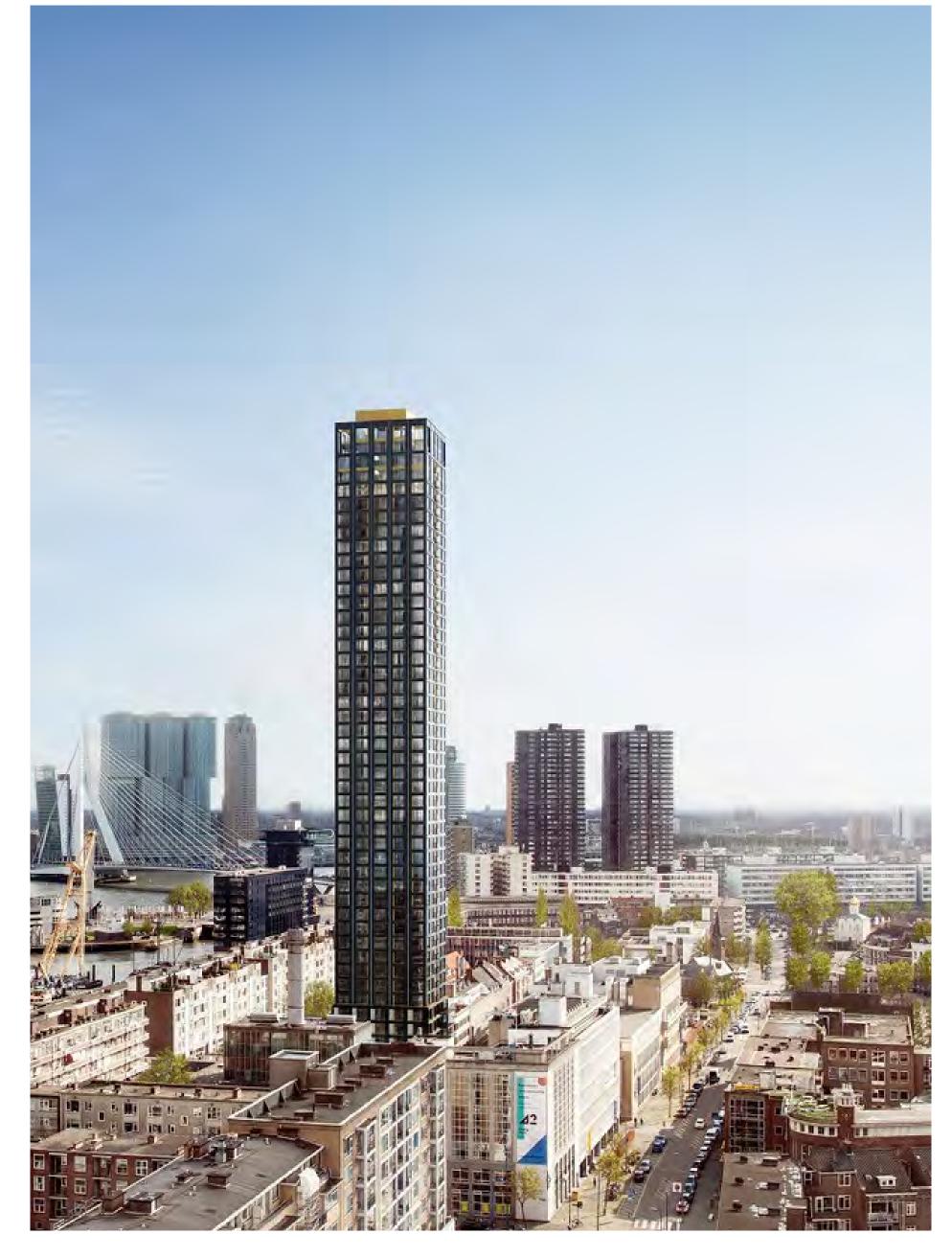


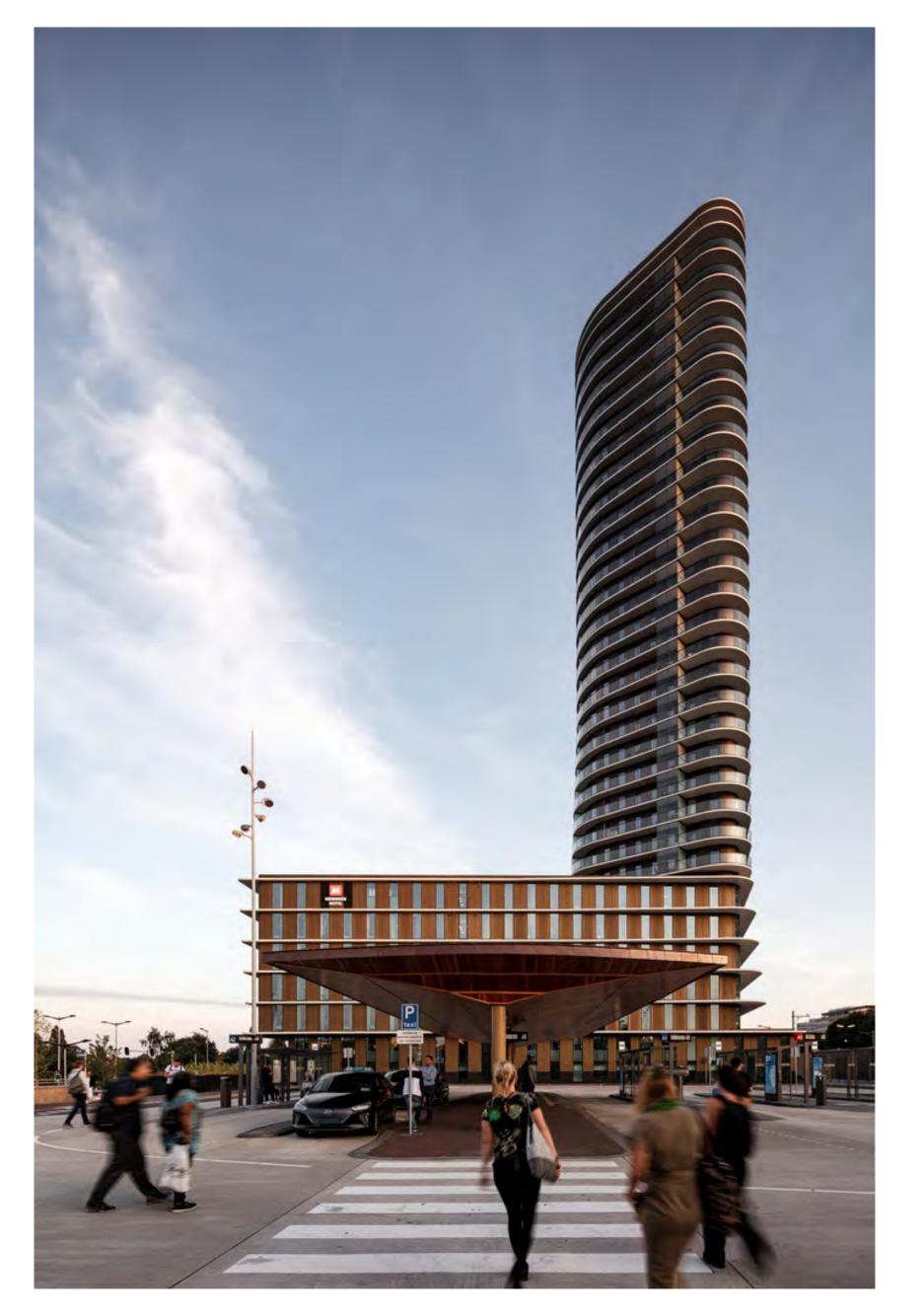






Powerhouse Company

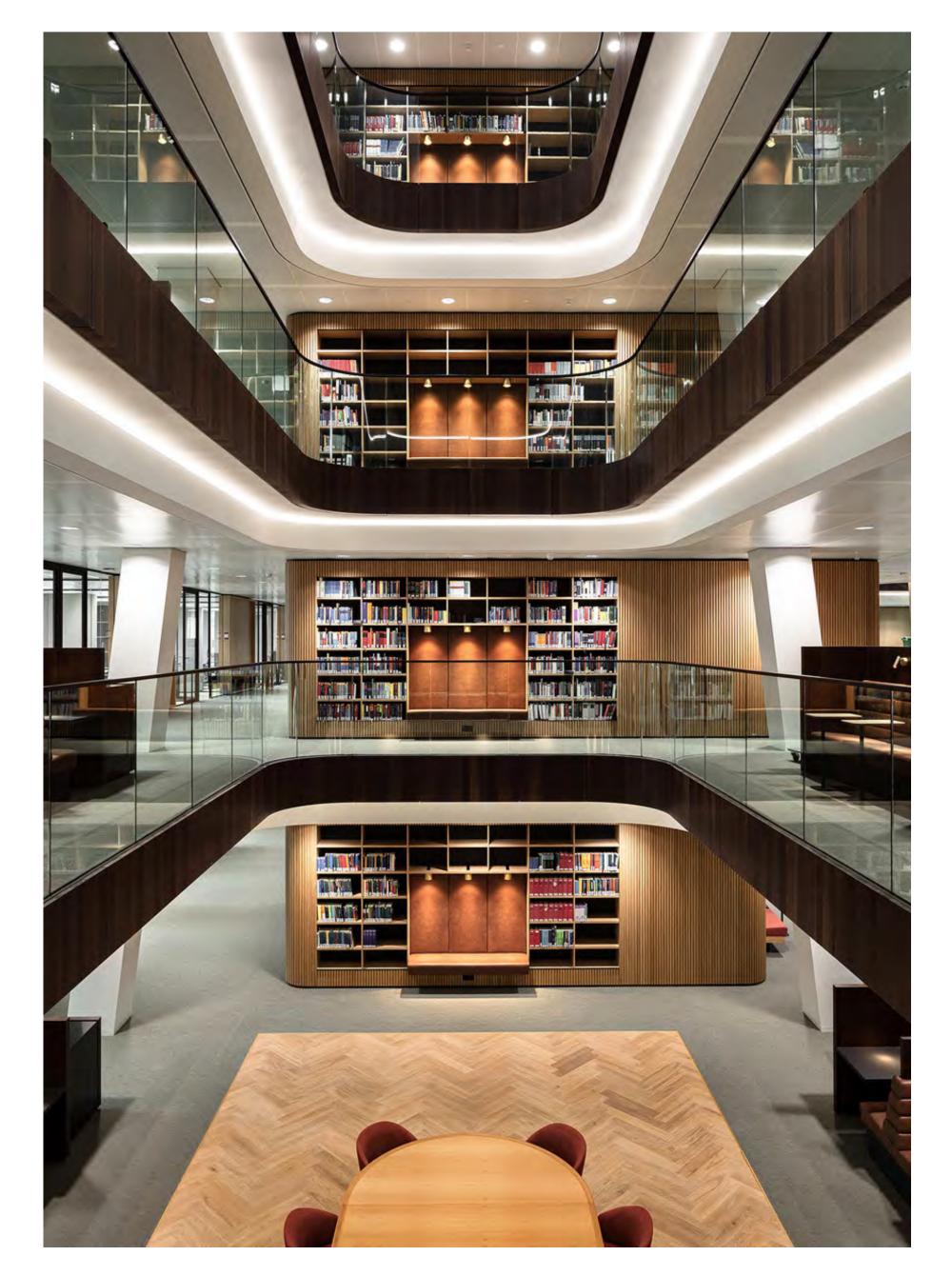




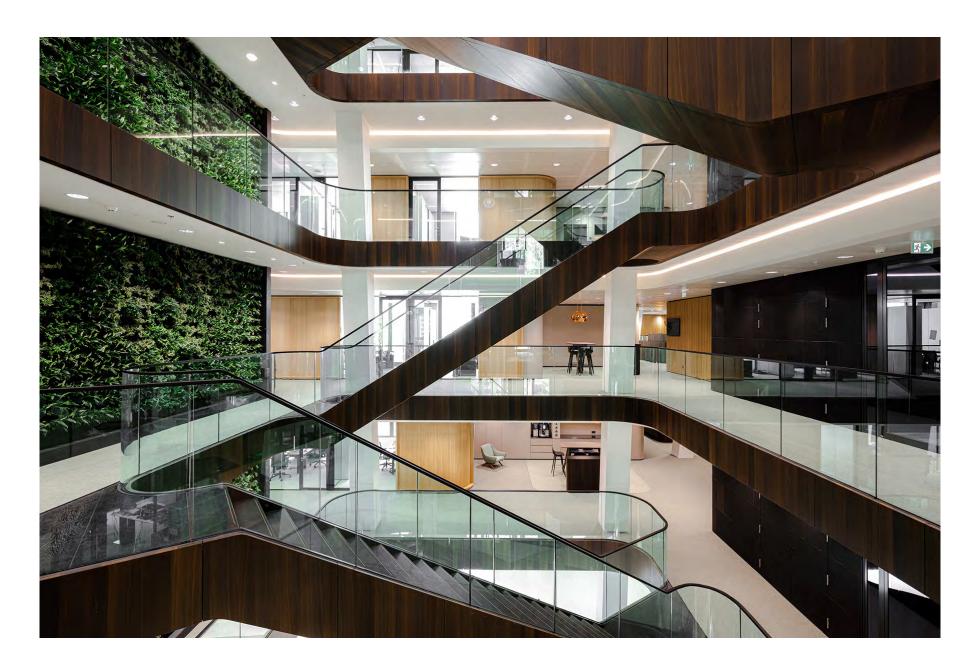








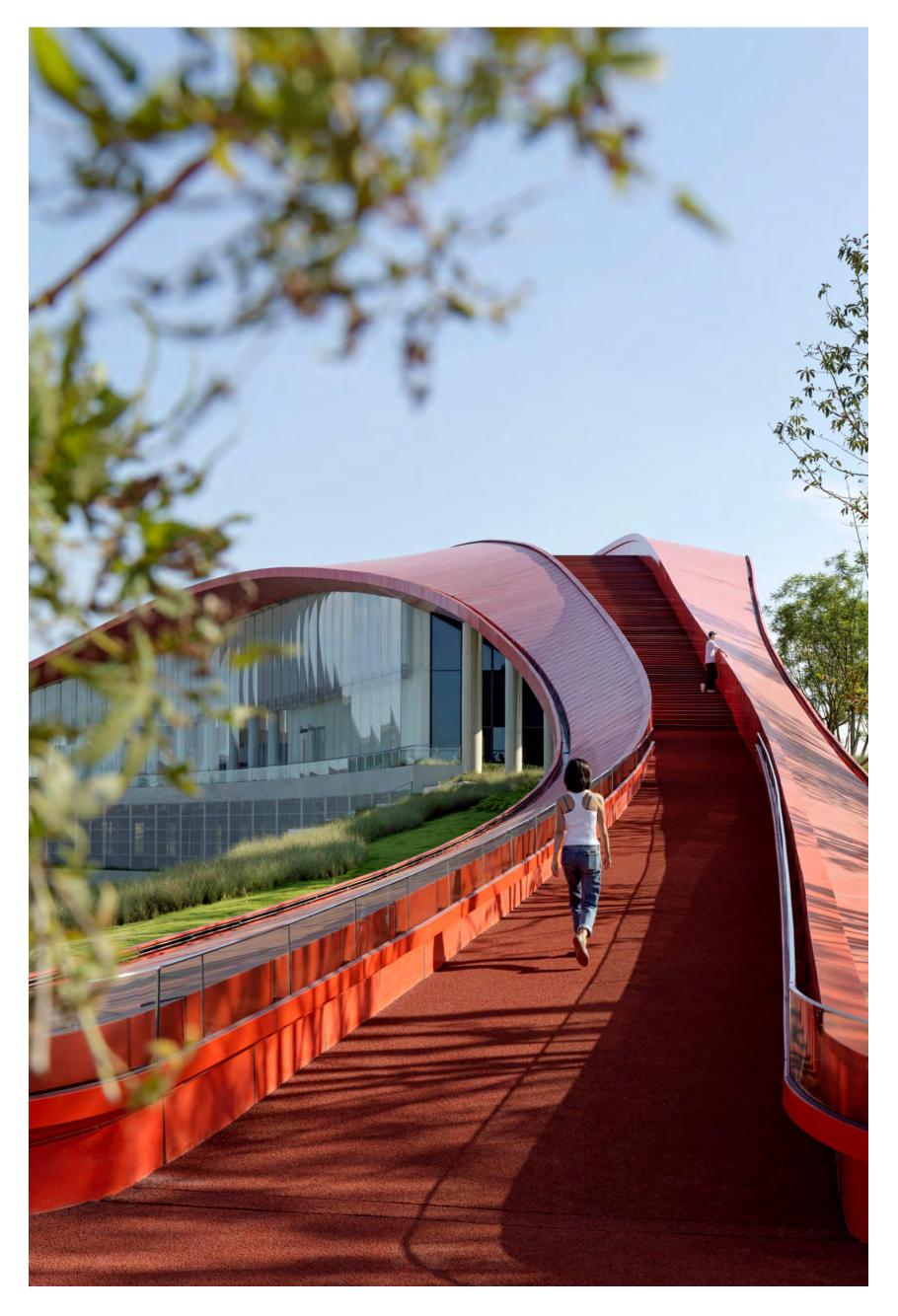








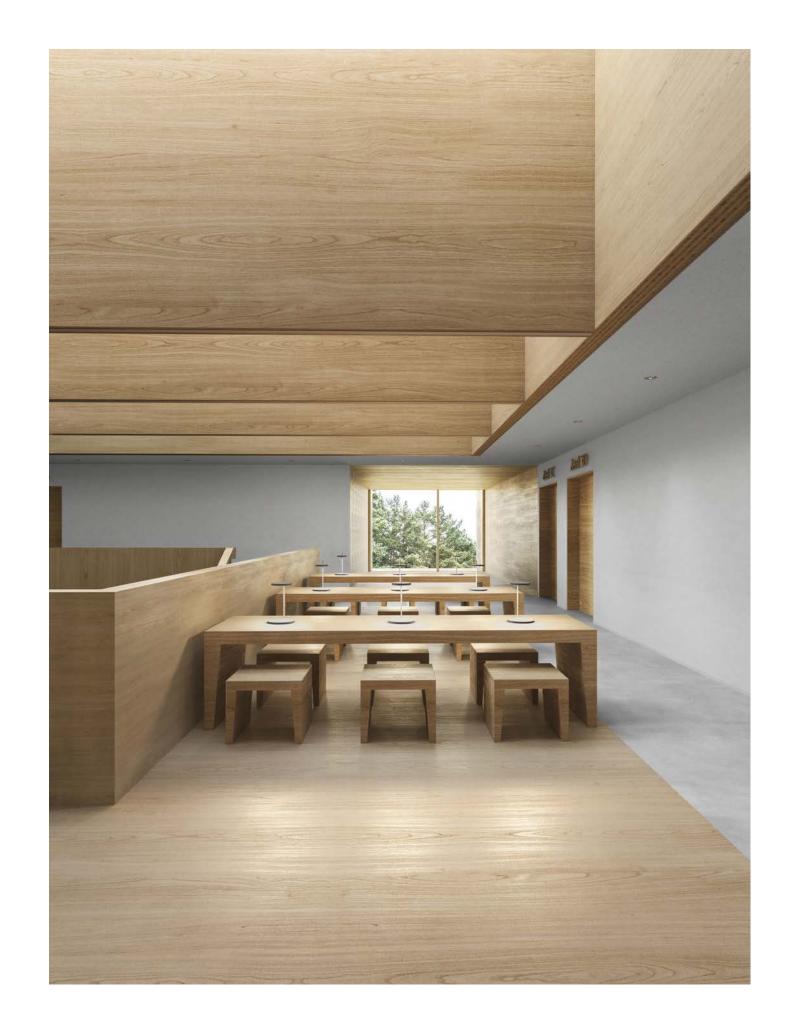








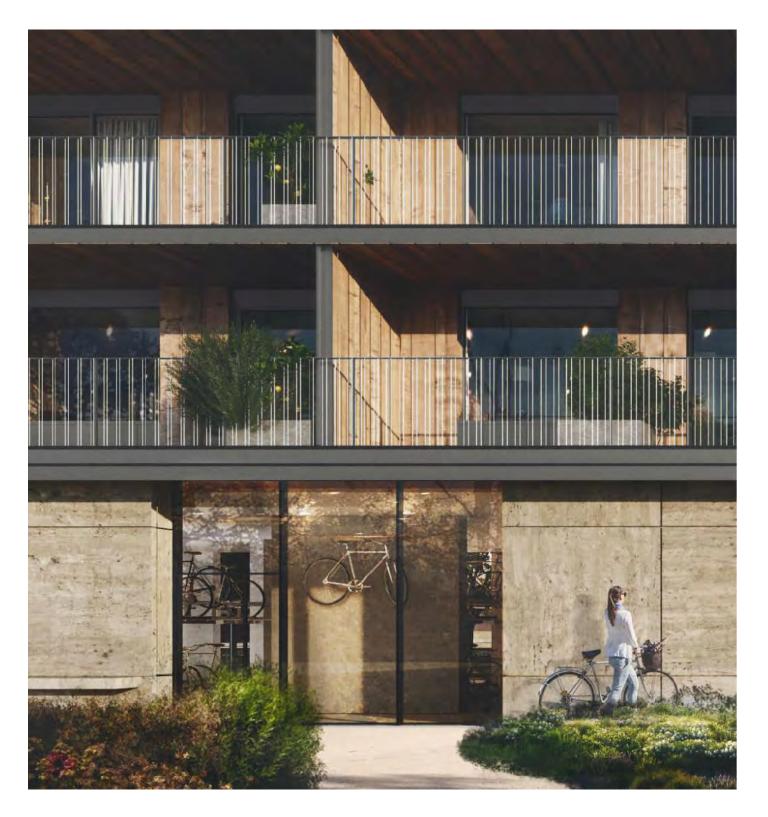












Powerhouse Company Floating Office Rotterdam — Vessel for Change







Rotterdam

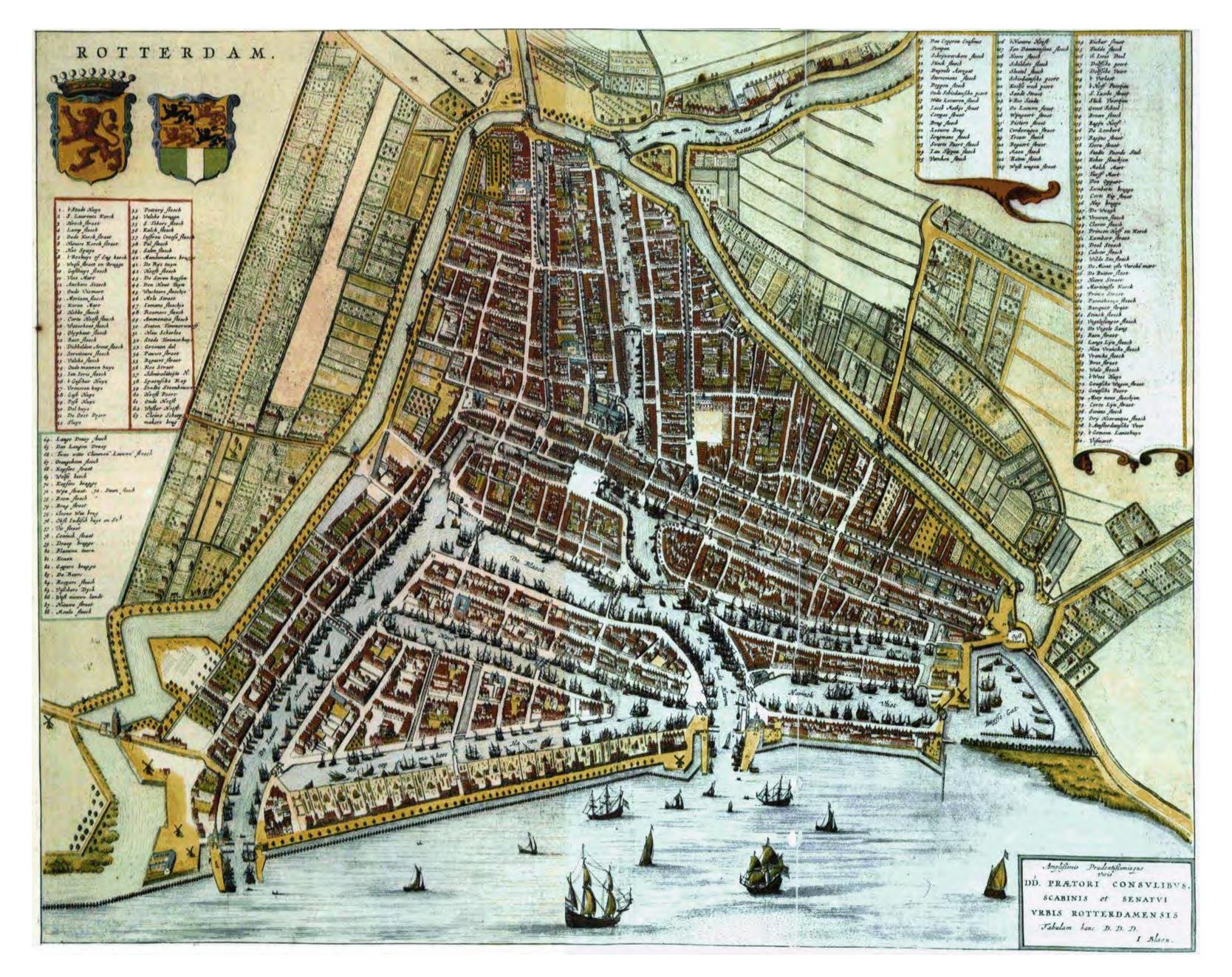






Rotterdam

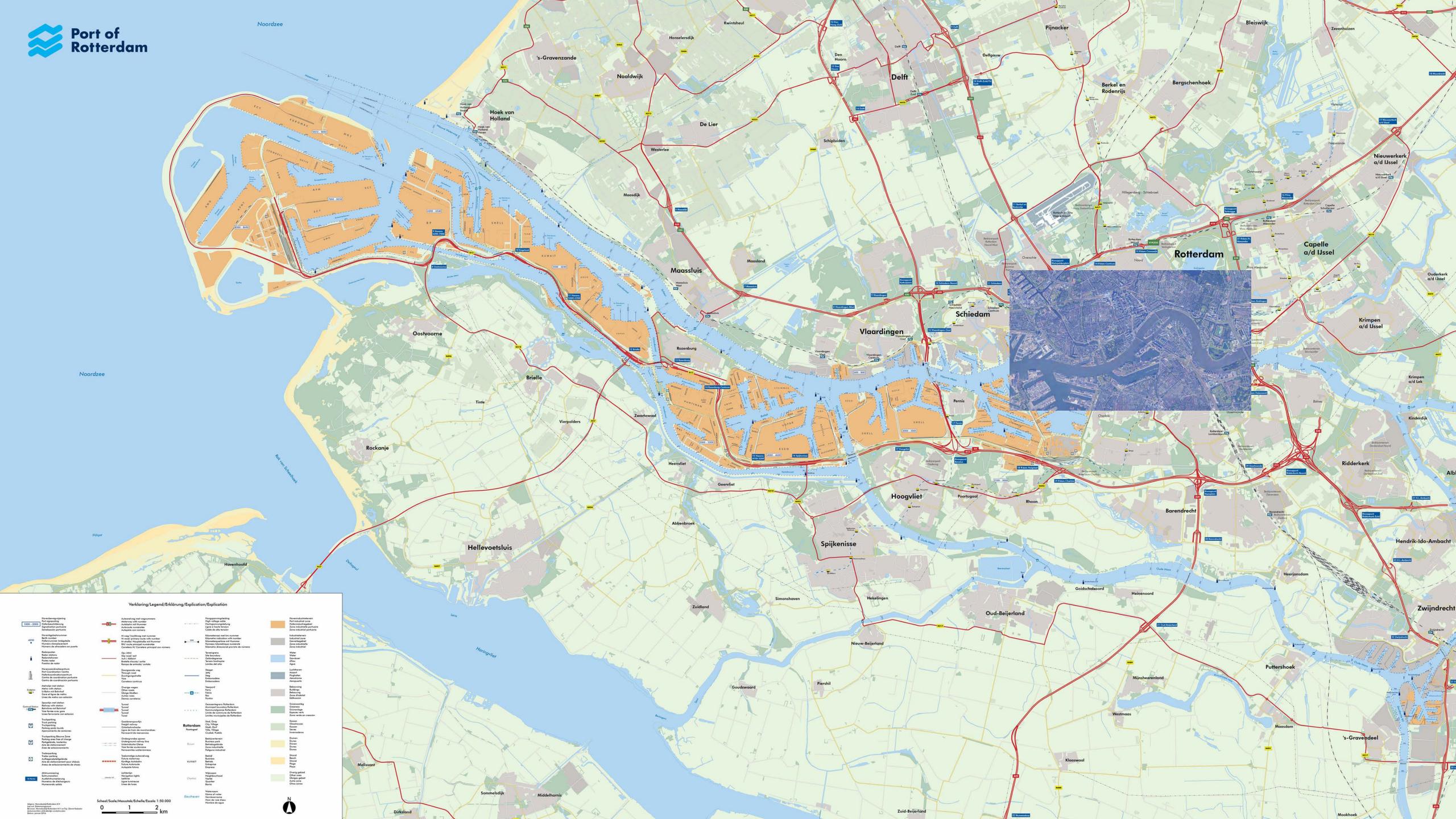


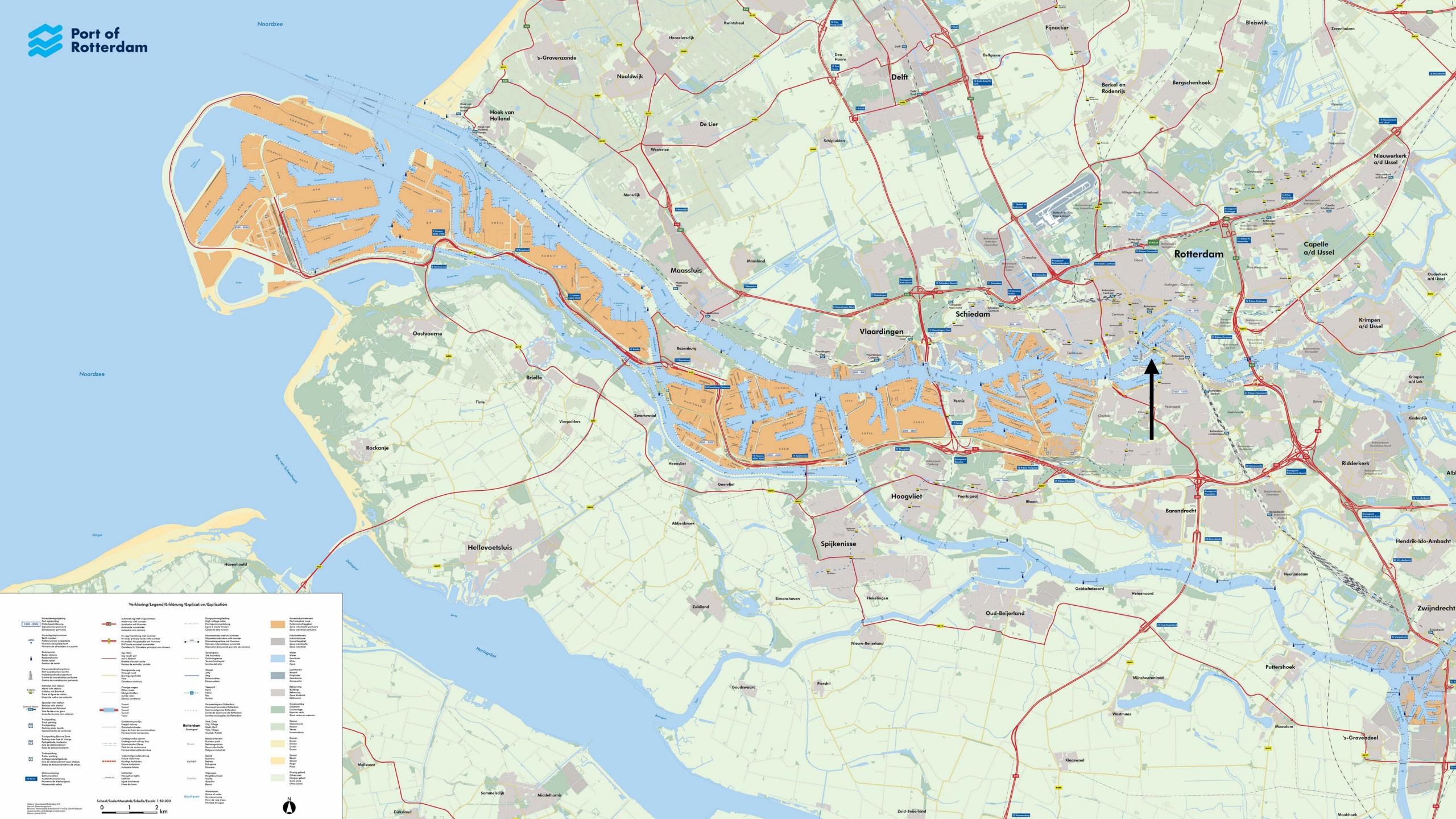








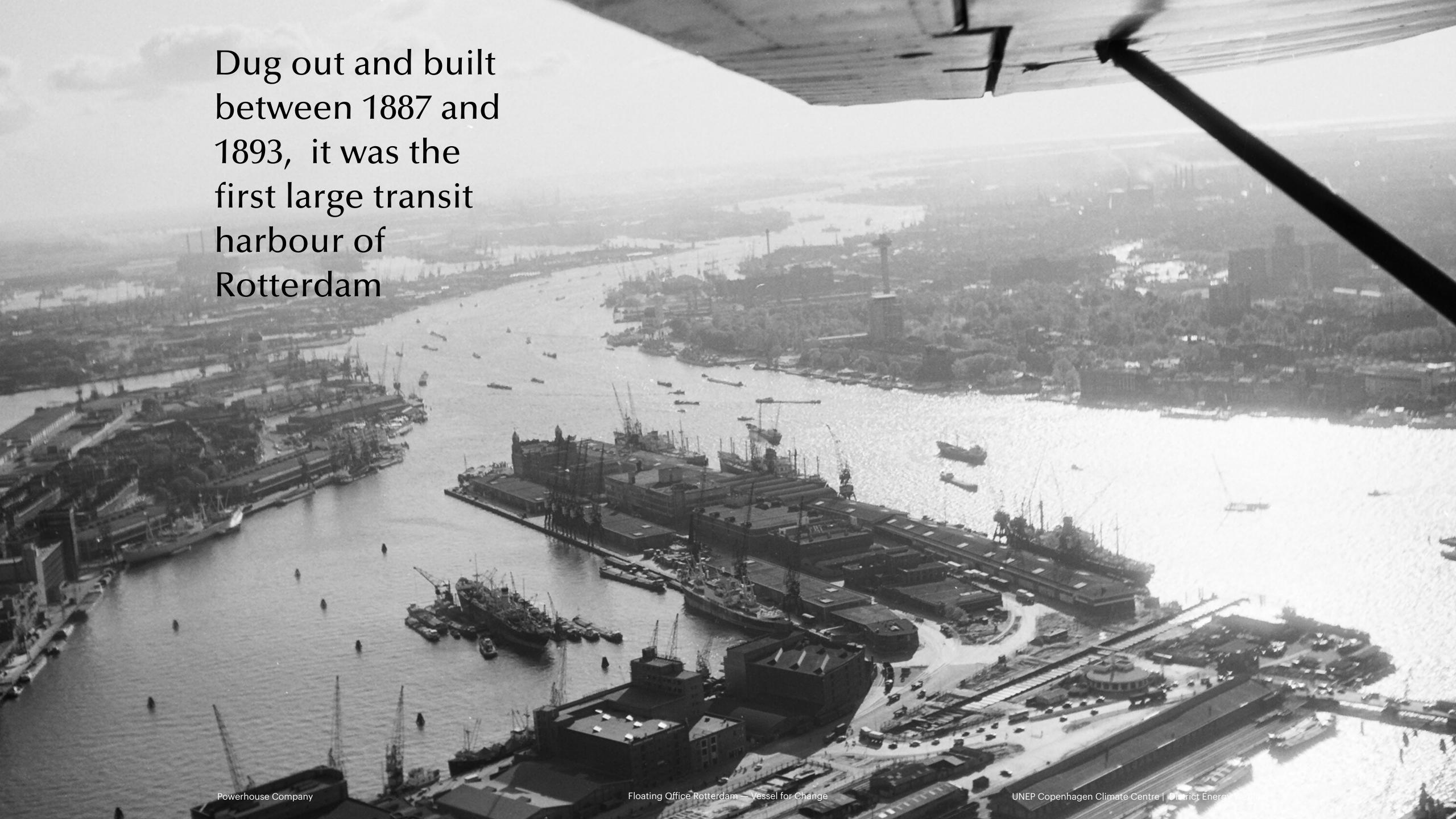


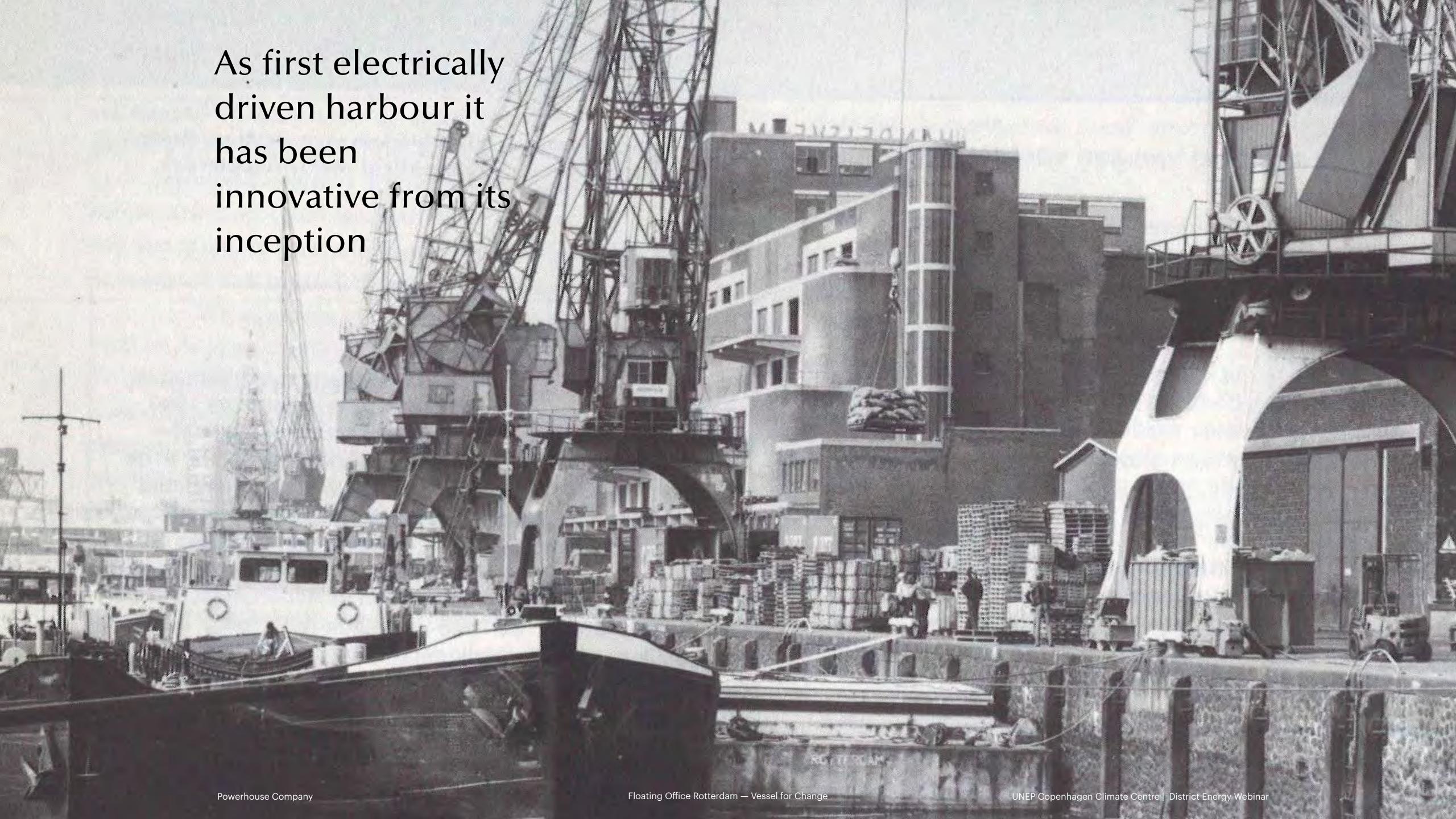


Context

















Global Center on Adaptation (GCA)







Global Centre of Excellence on





GLOBAL
CENTER ON
ADAPTATION



Energy Academy Europe - Groningen



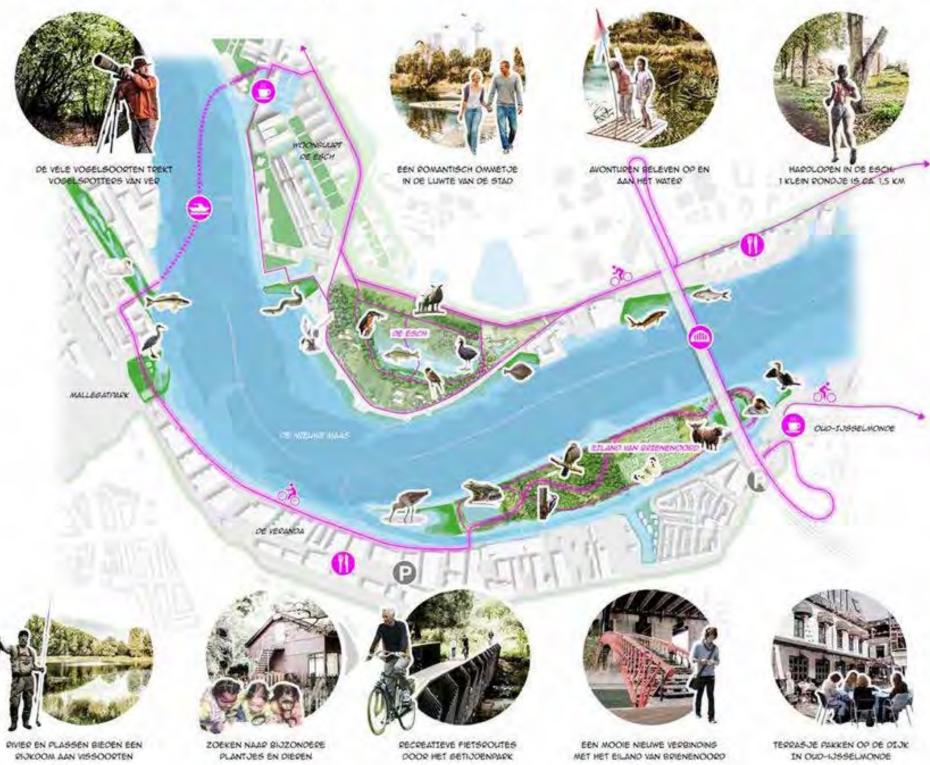
GCA HQ - Rotterdam

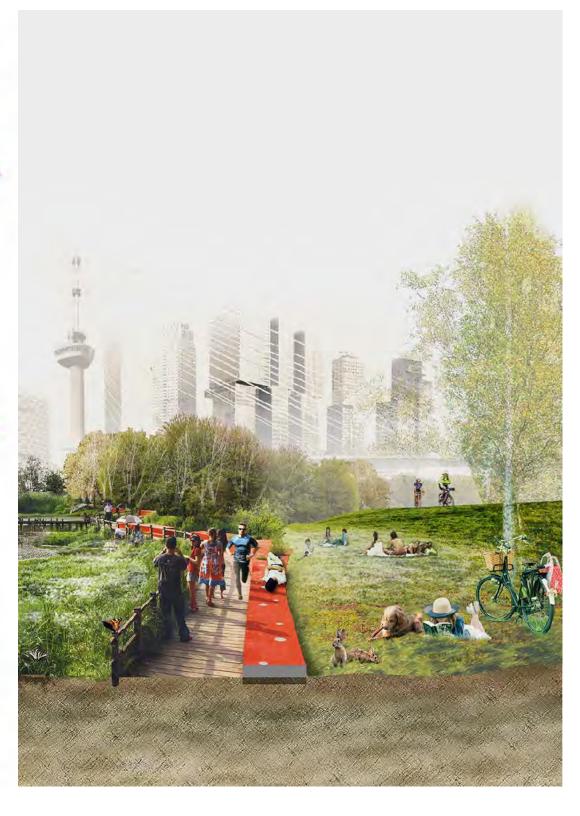




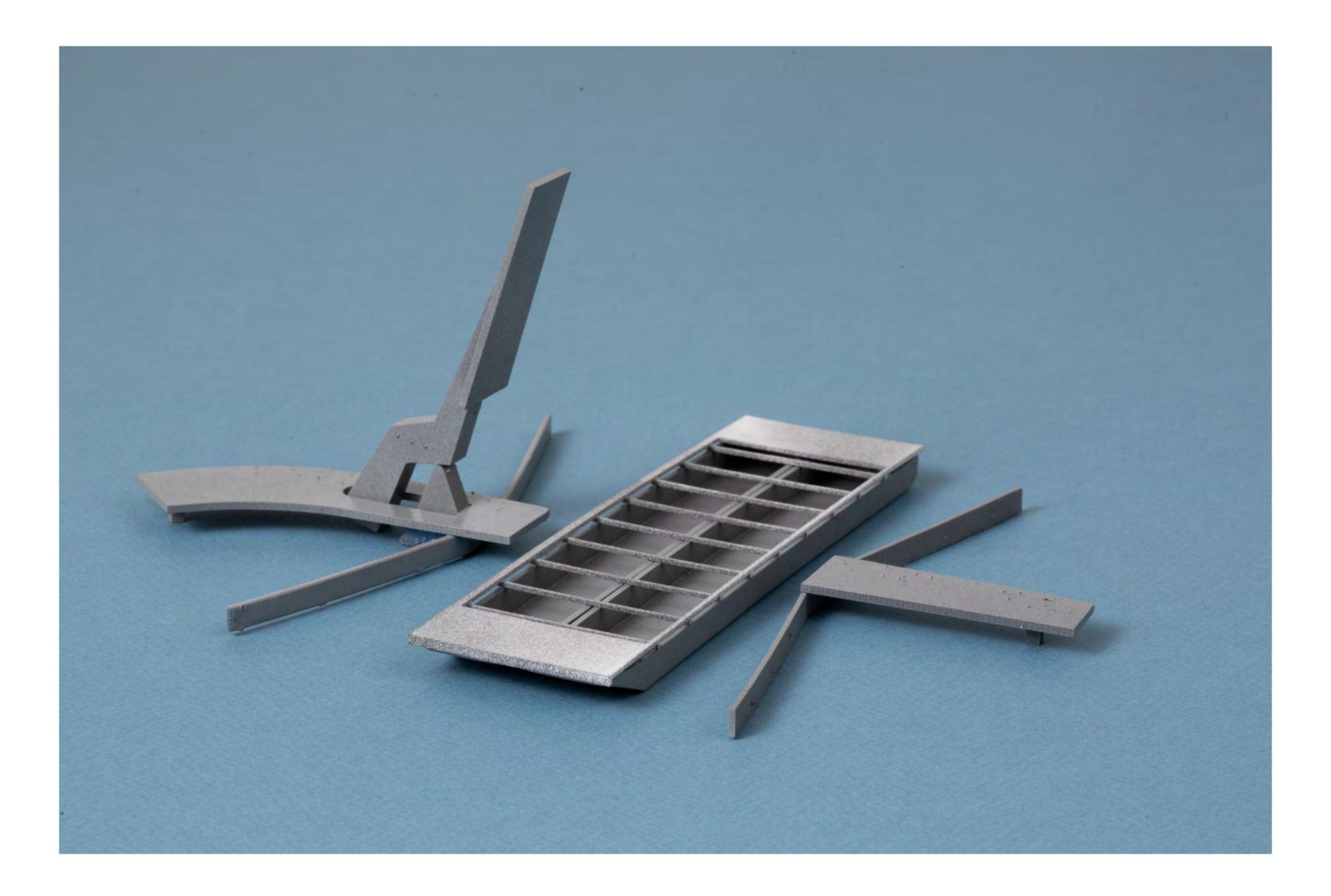


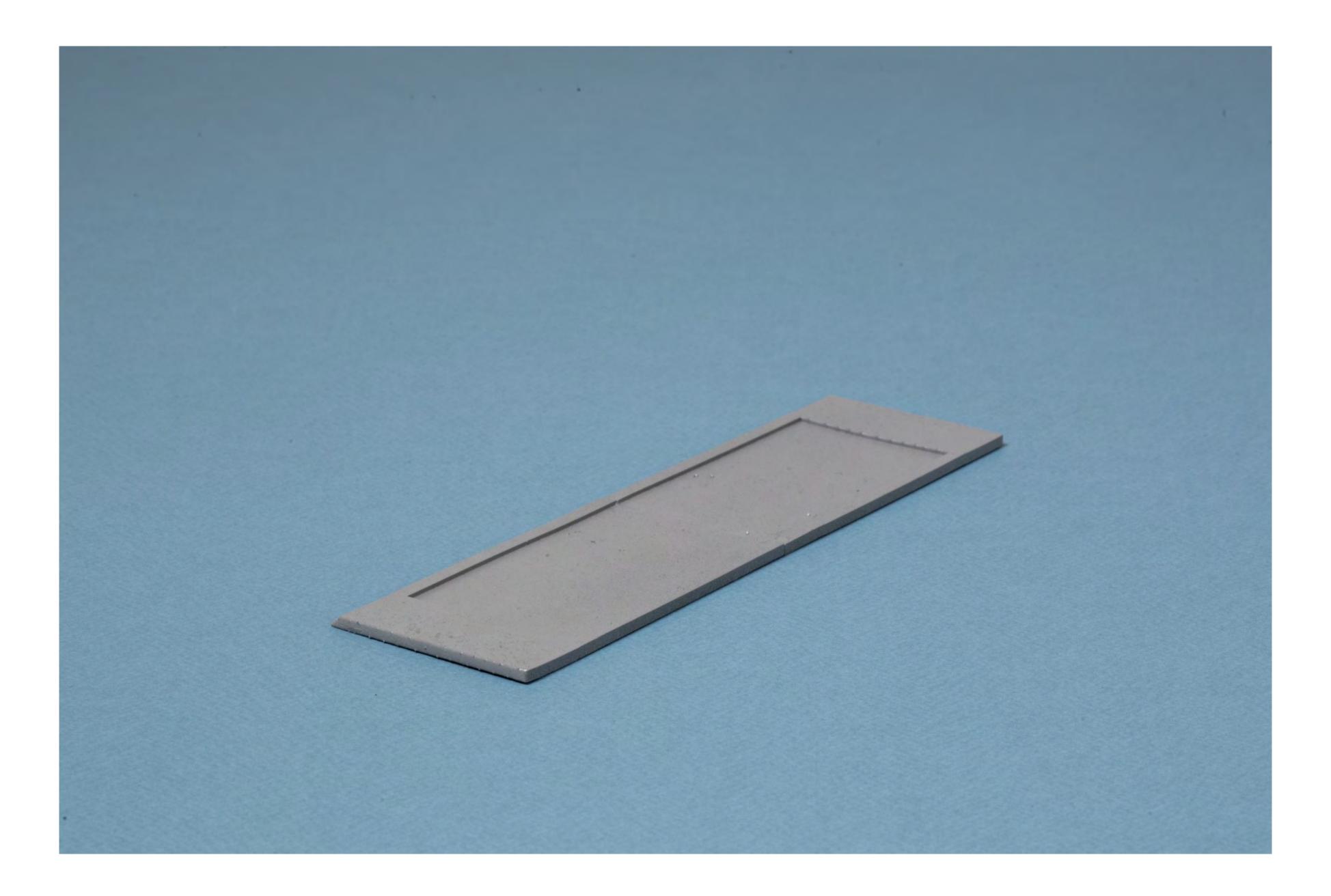


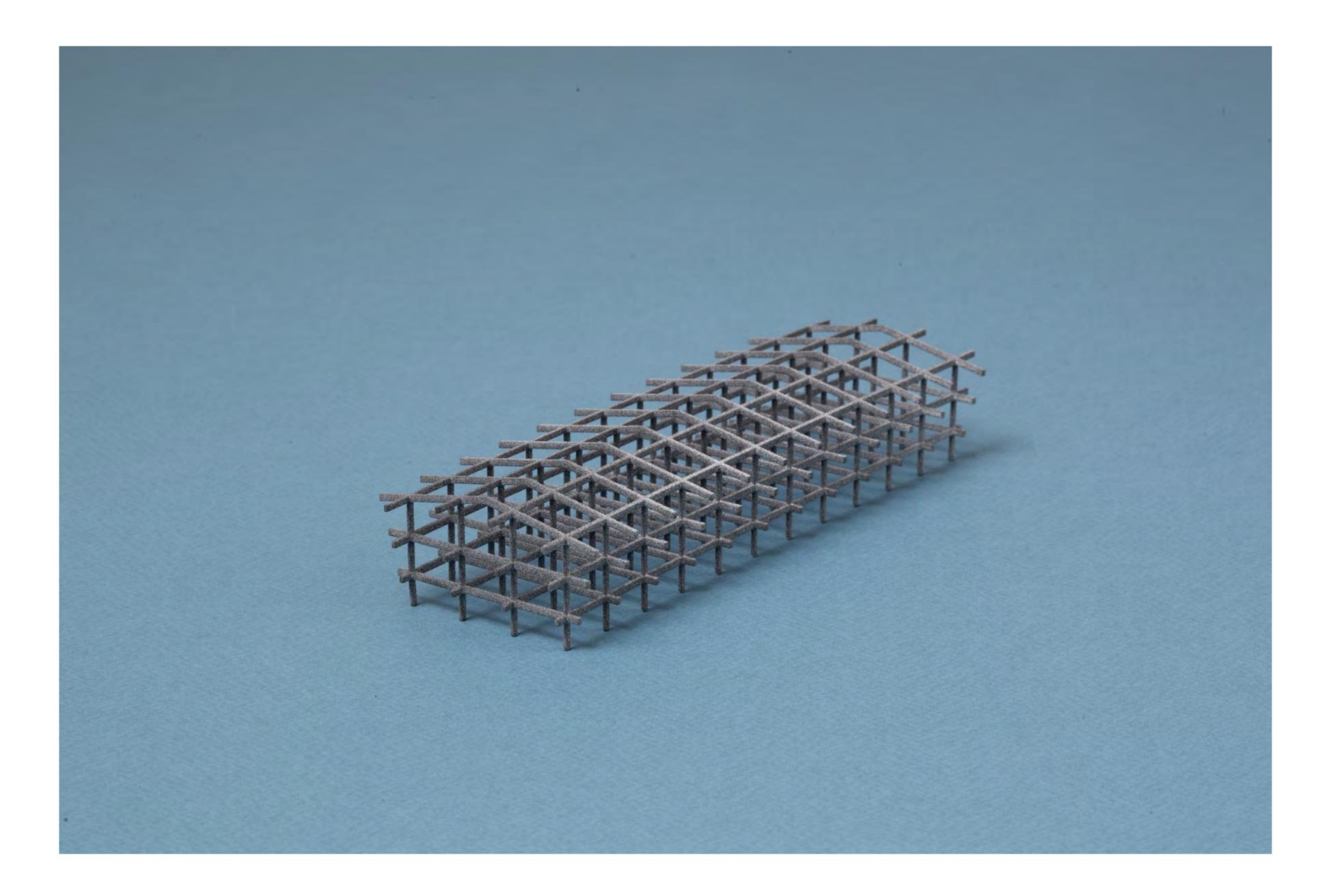


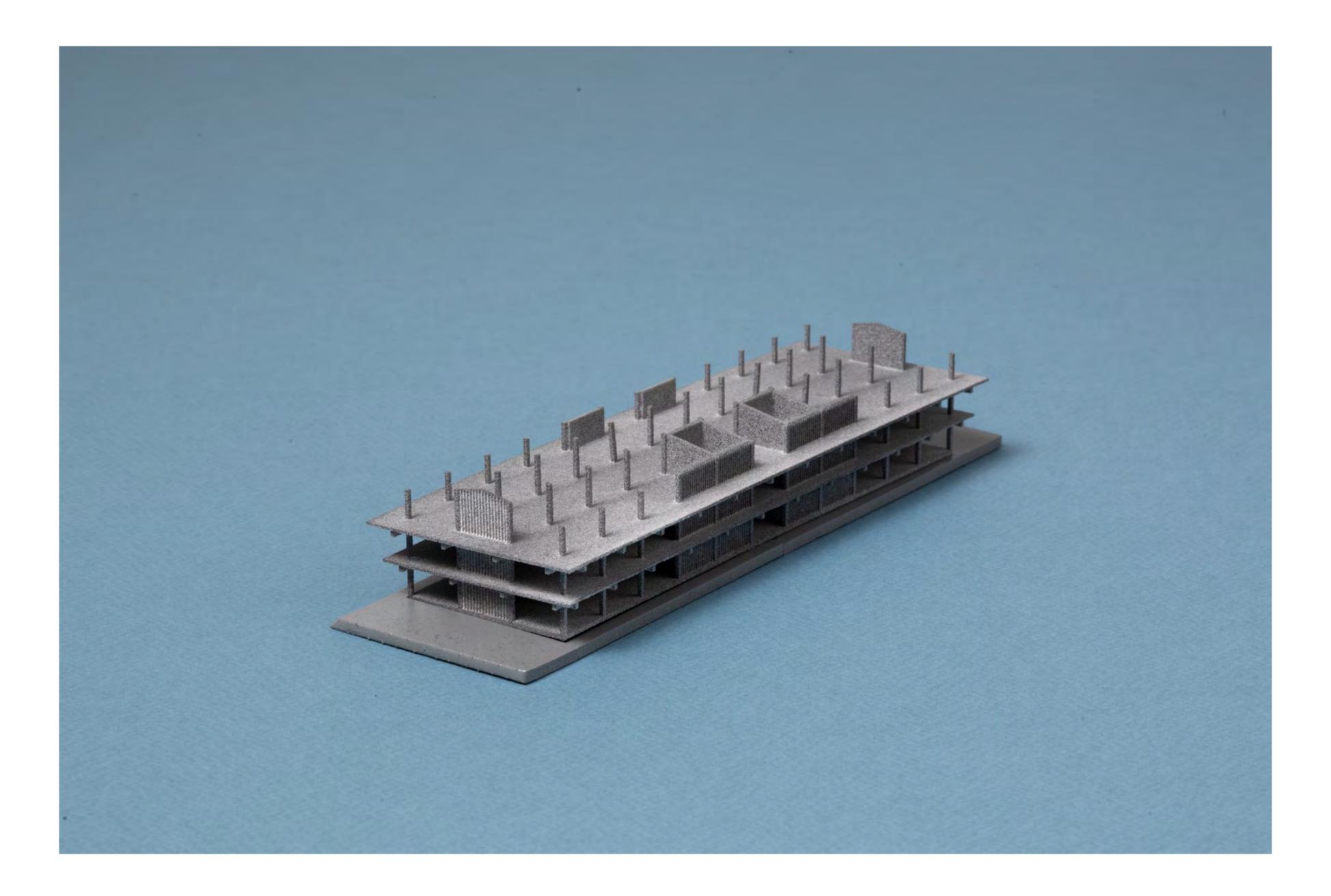


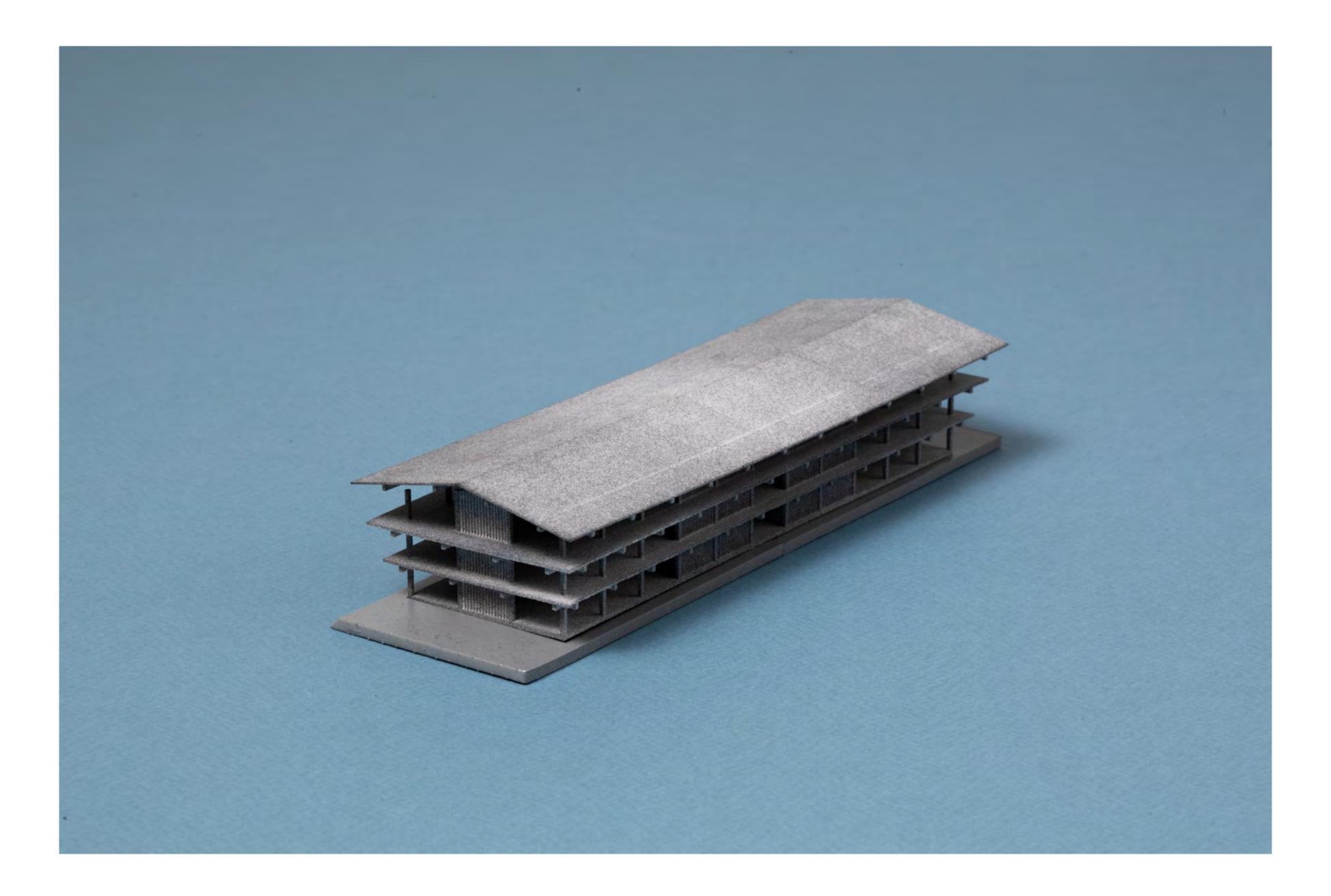
DESIGN.



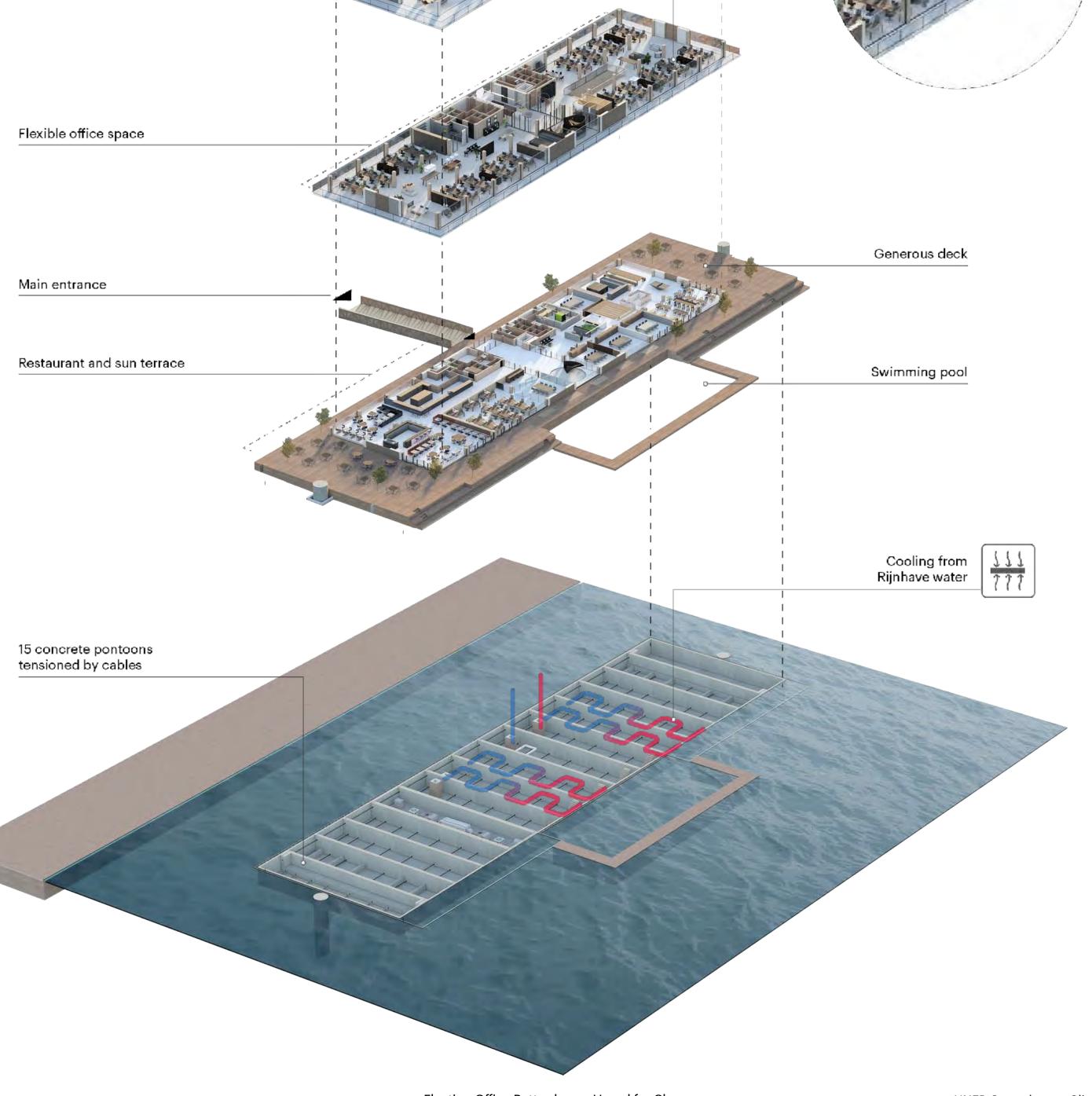


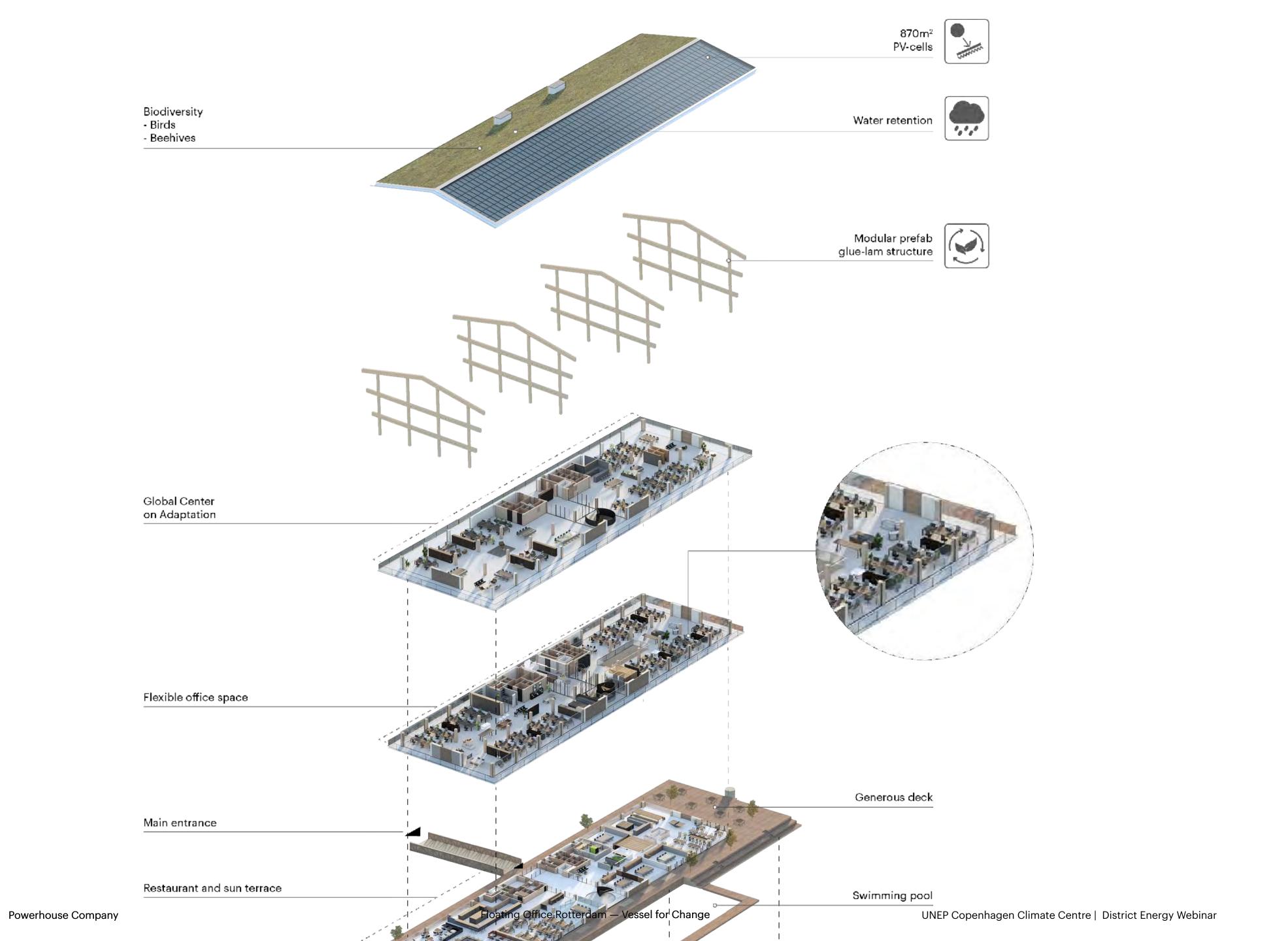


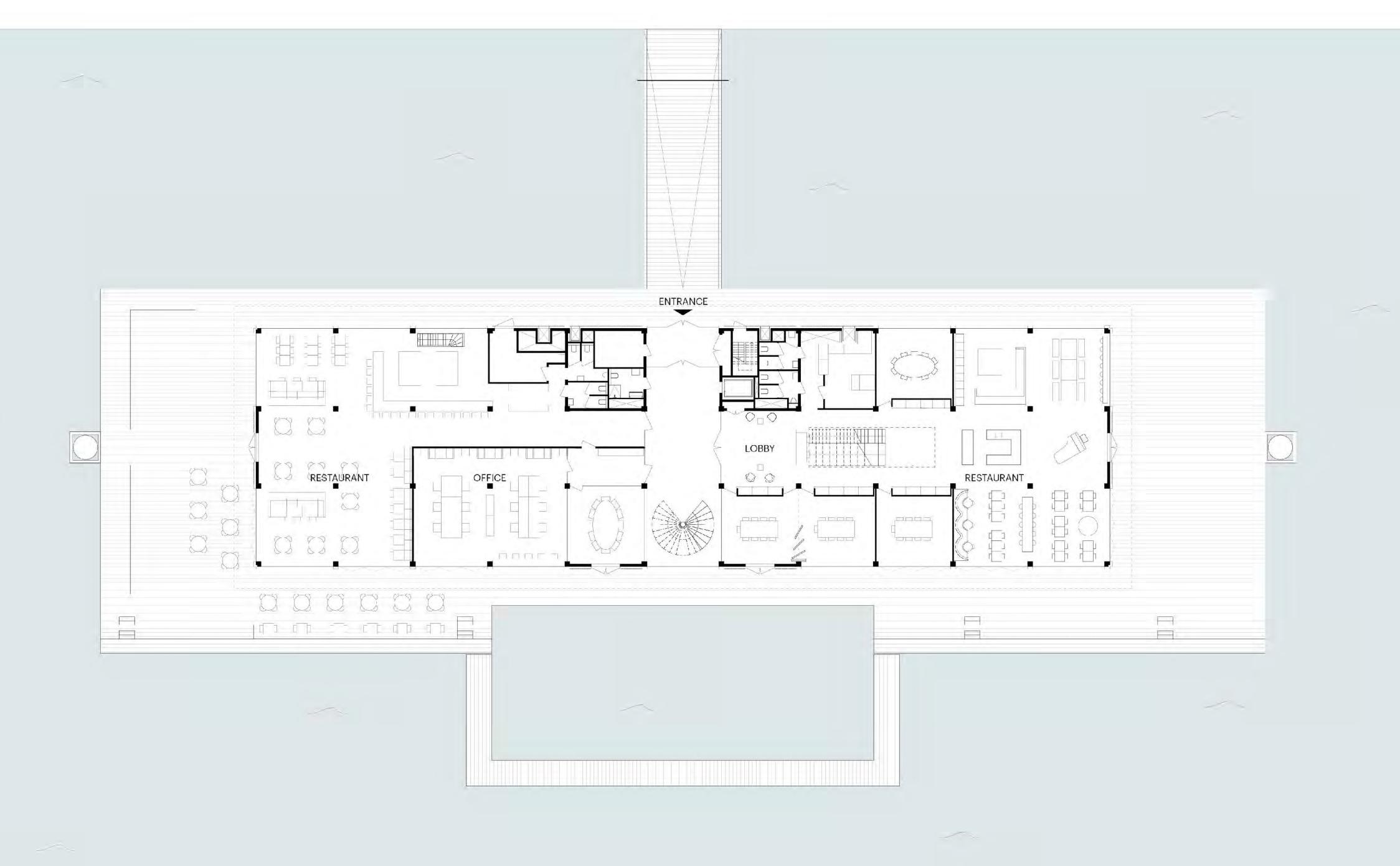


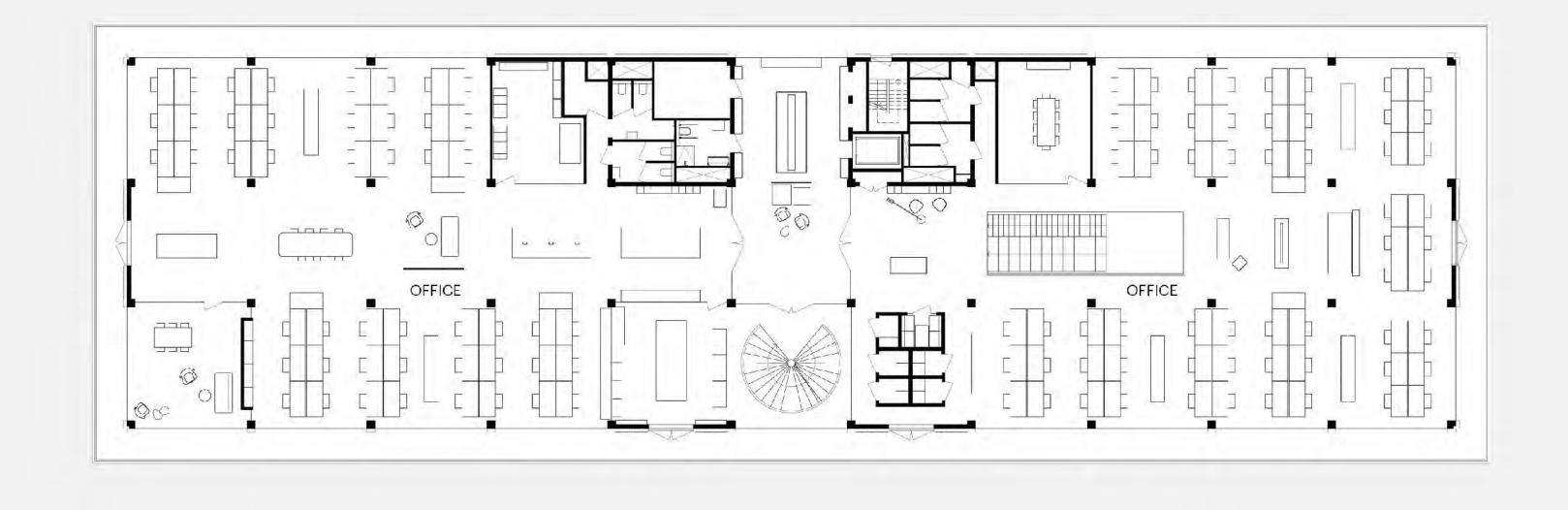


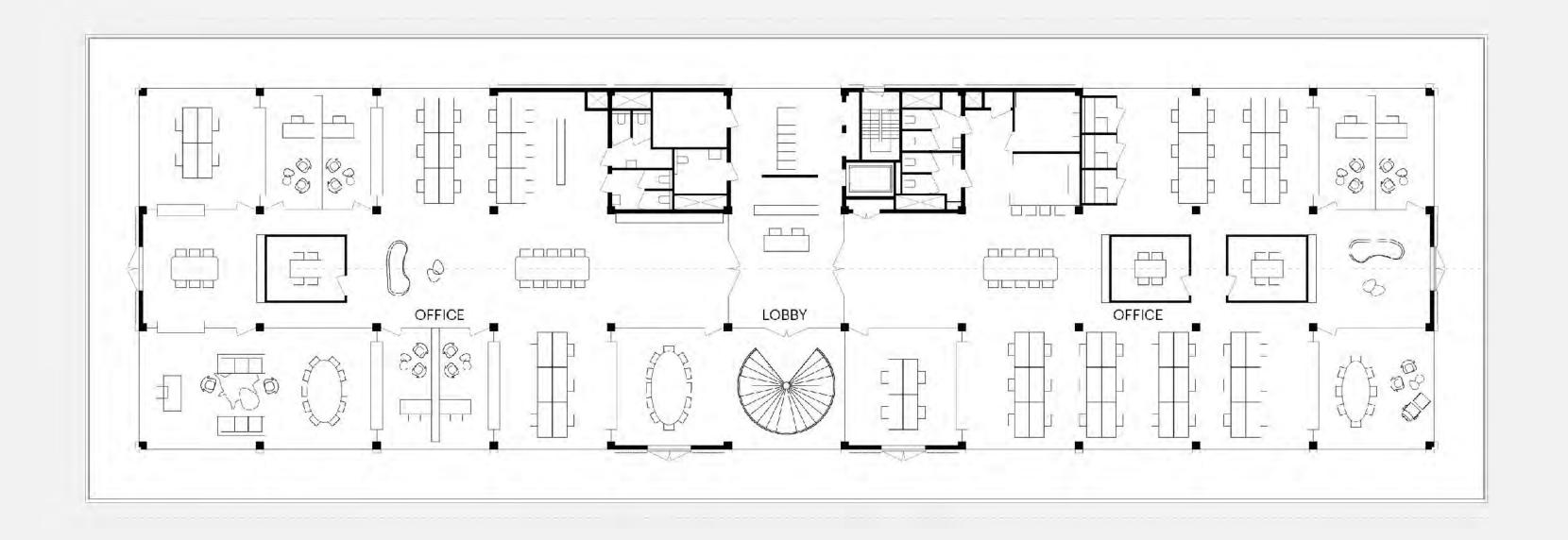


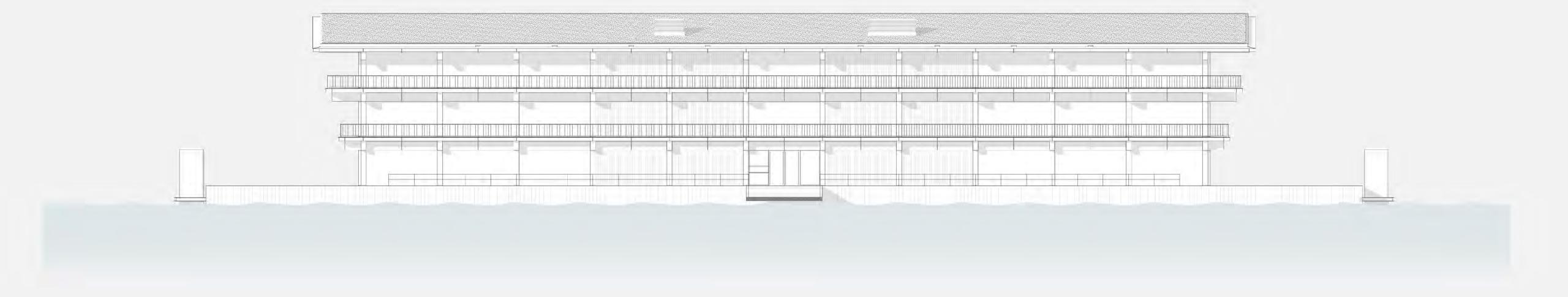


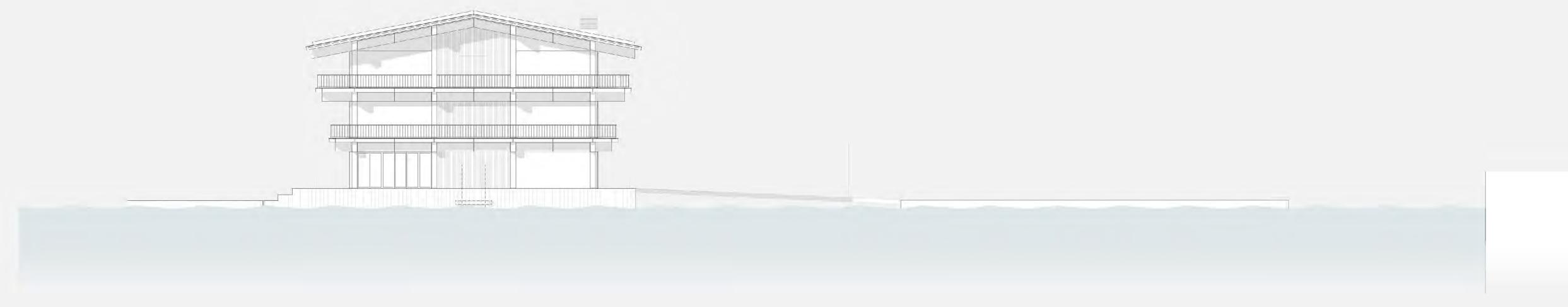
















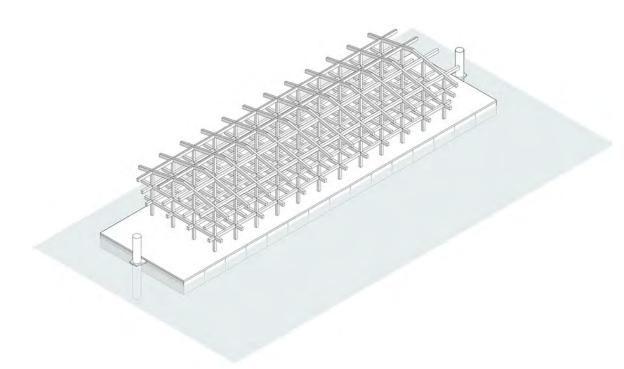


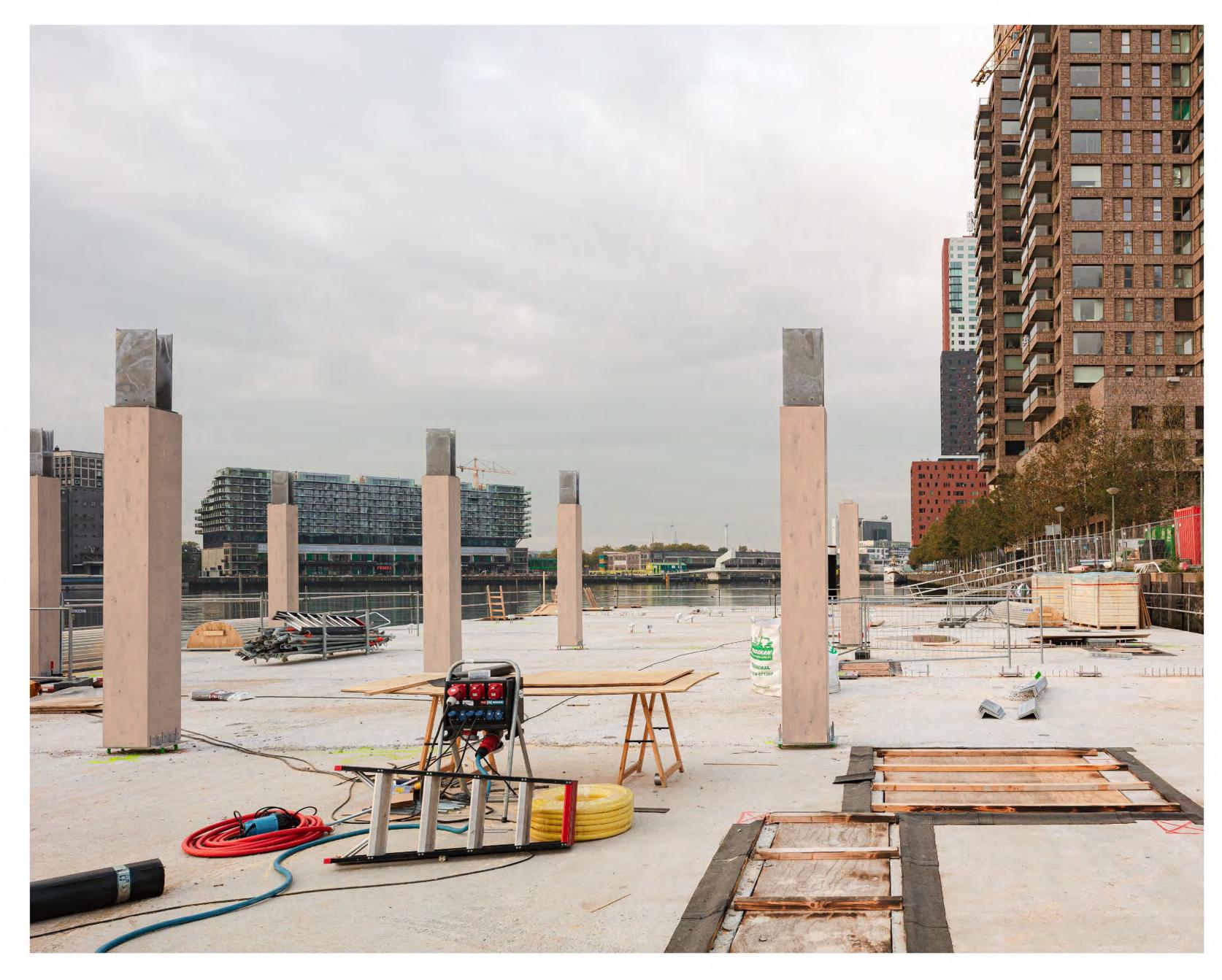
Creation



Creation

De elegantie van eenvoud

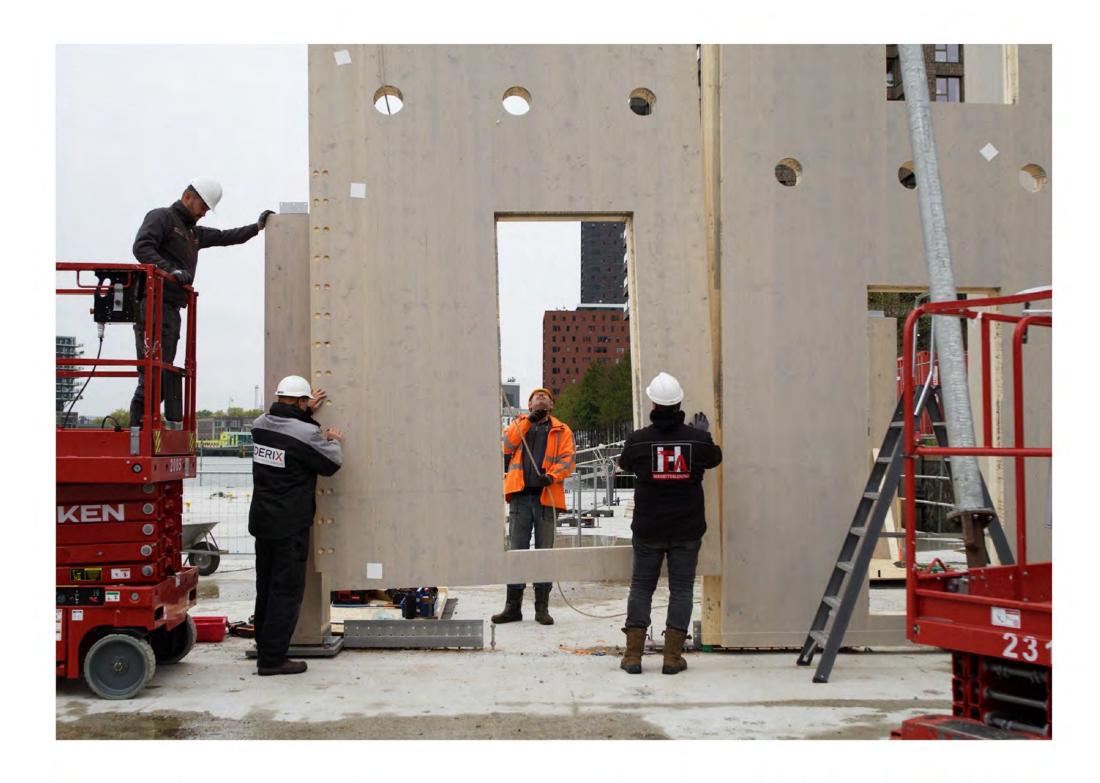


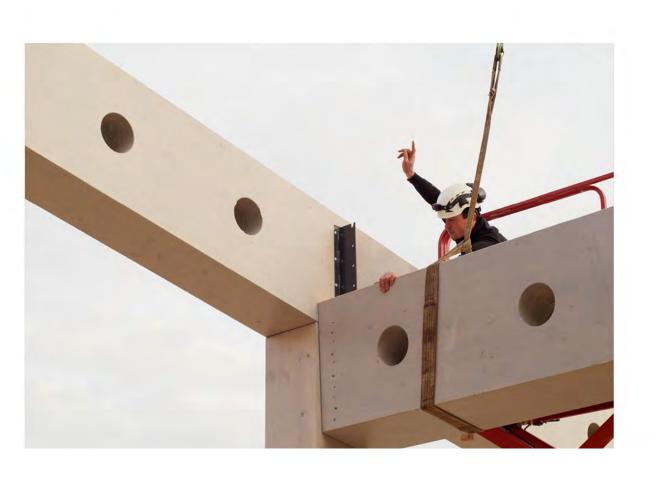


Creation

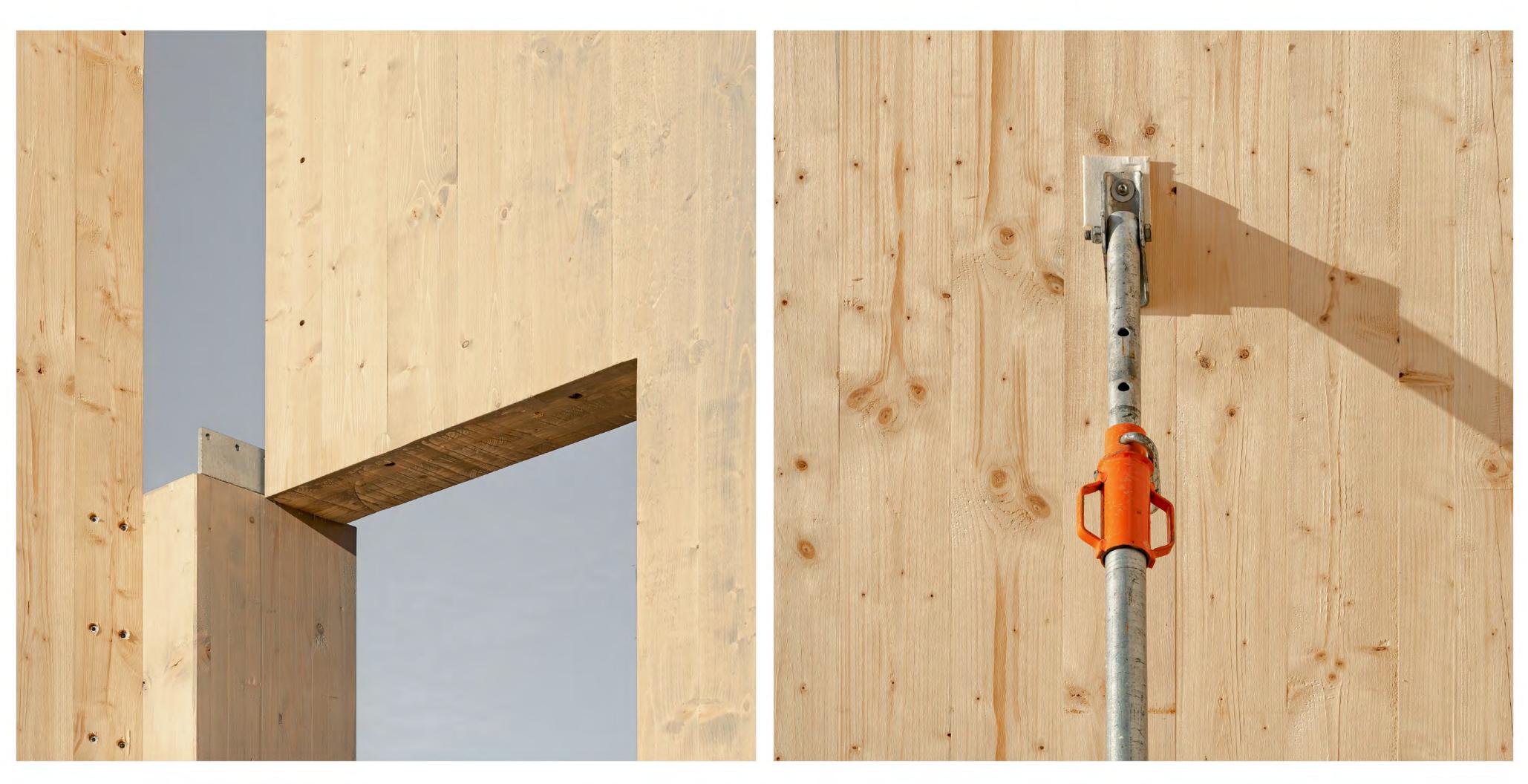
De bovenbouw is grotendeels pre-fab uitgevoerd en is als bouwpakket in elkaar gezet.



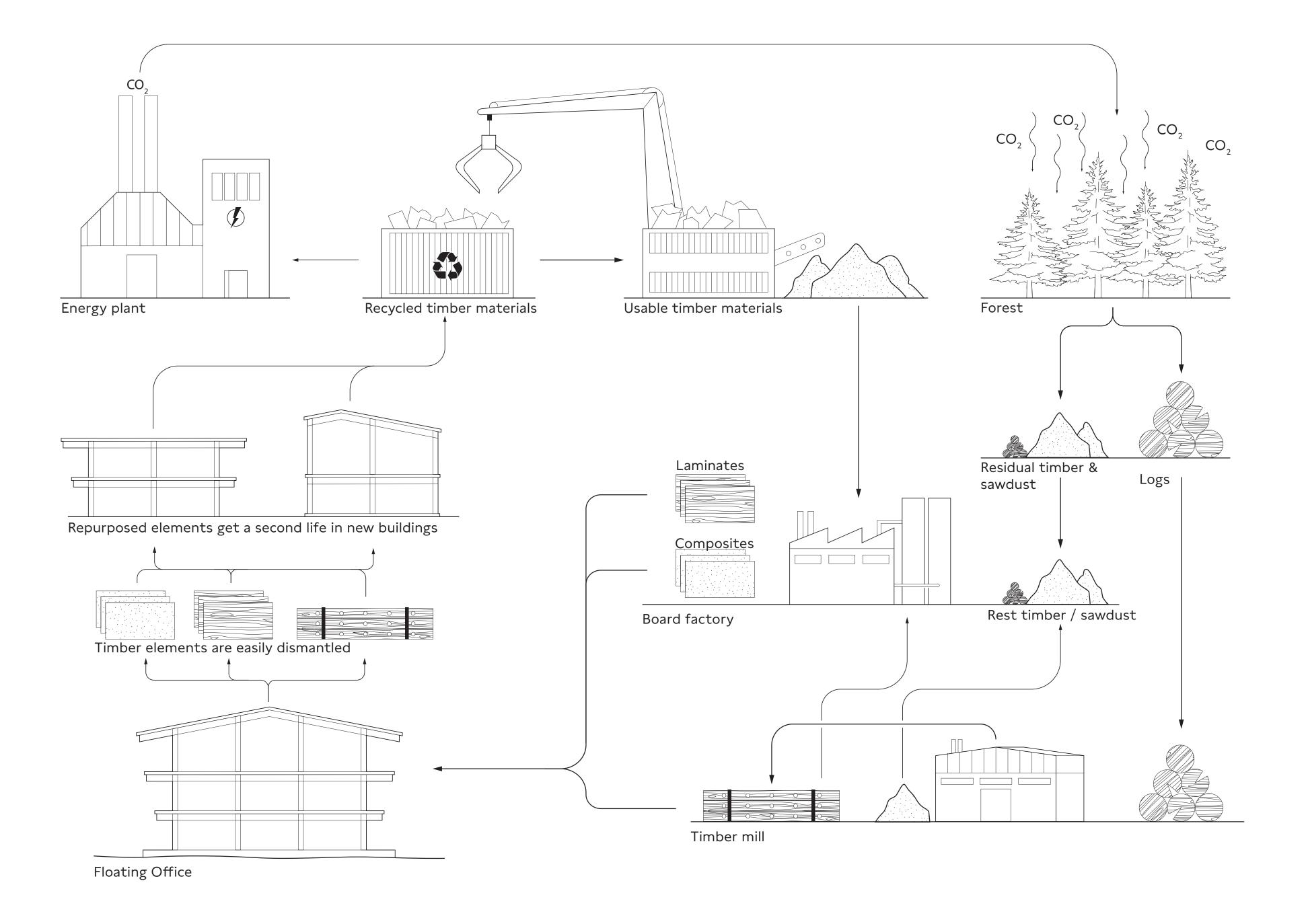


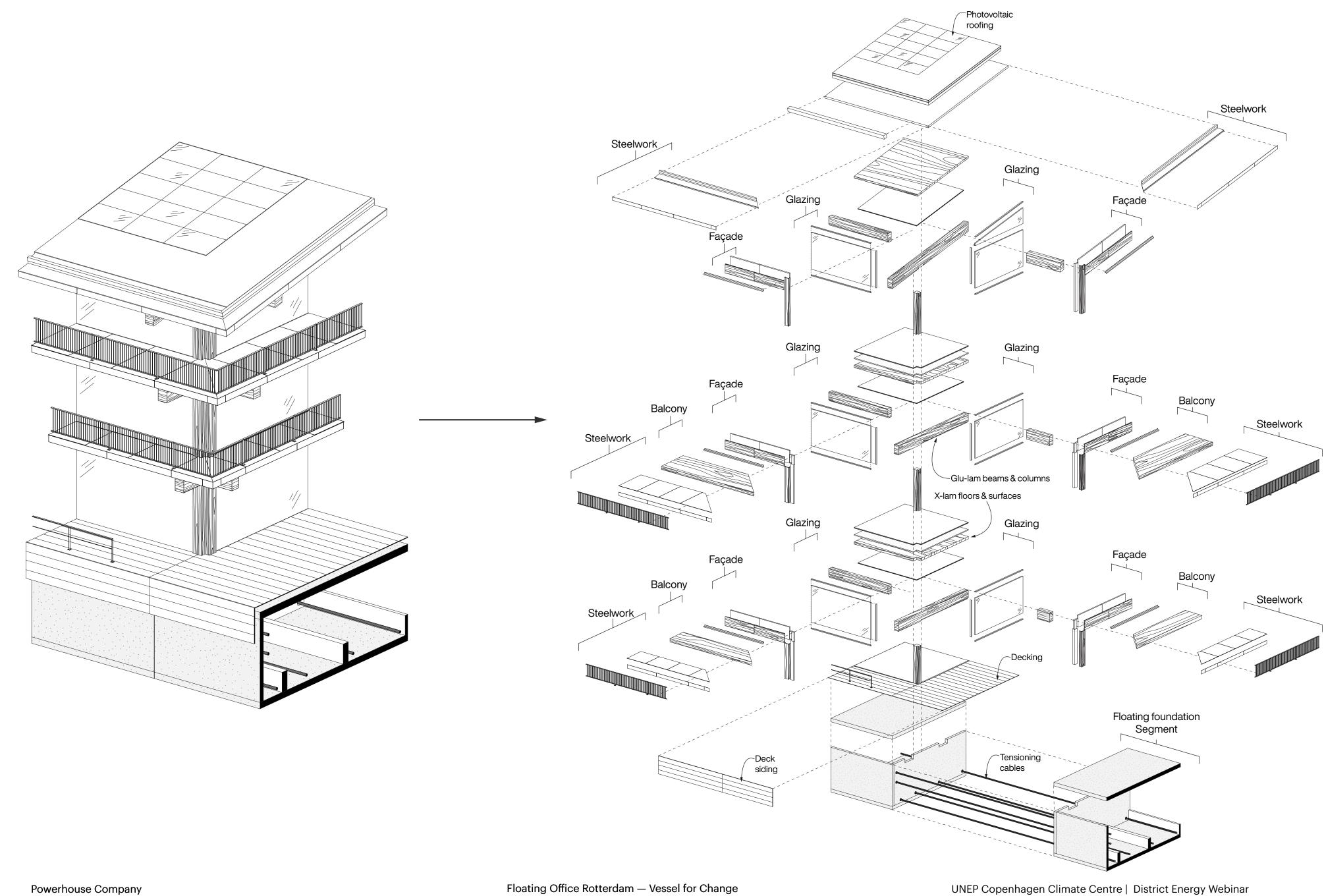


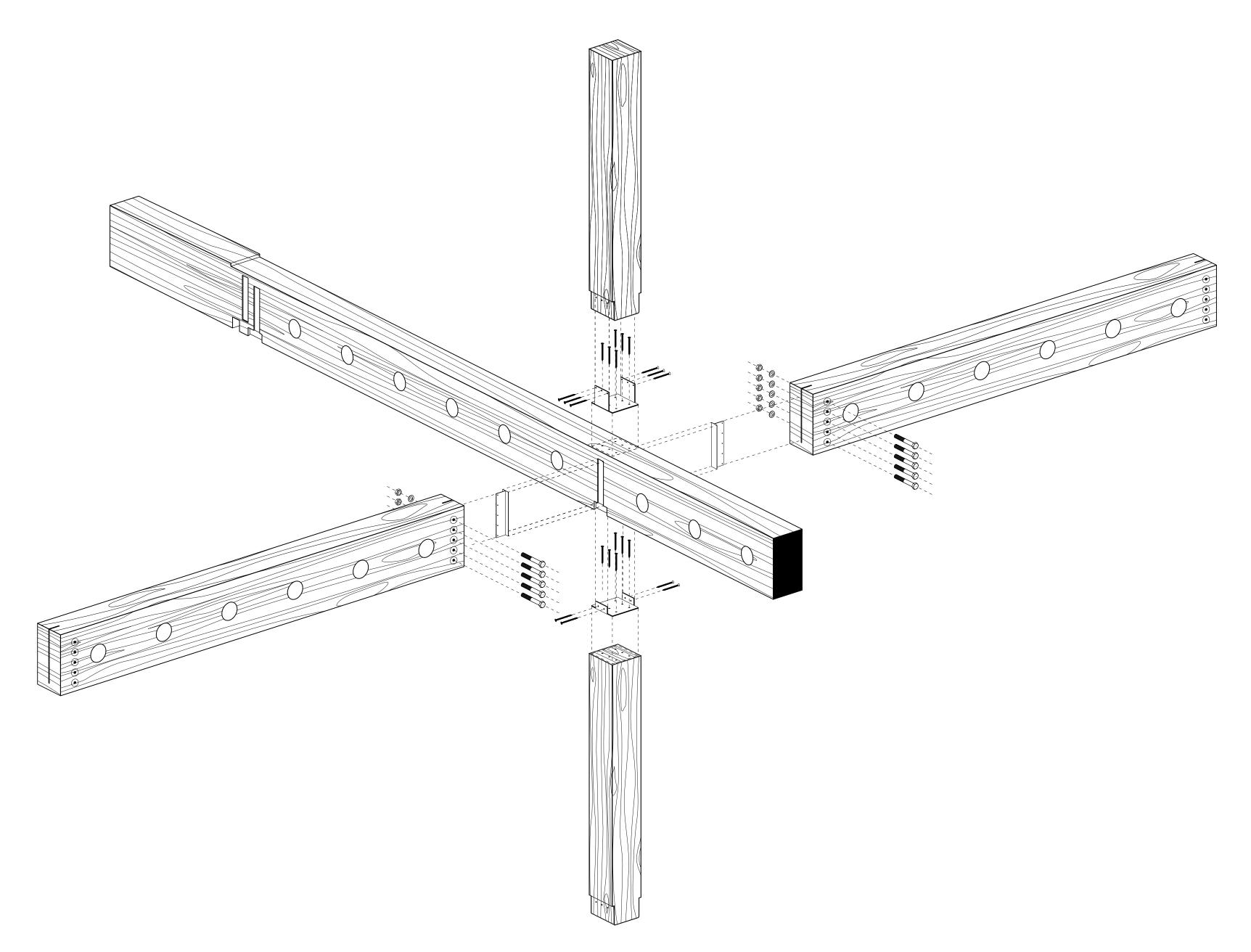
CLT hout



Powerhouse Company Floating Office Rotterdam — Vessel for Change Academie van Bouwkunst Amsterdam

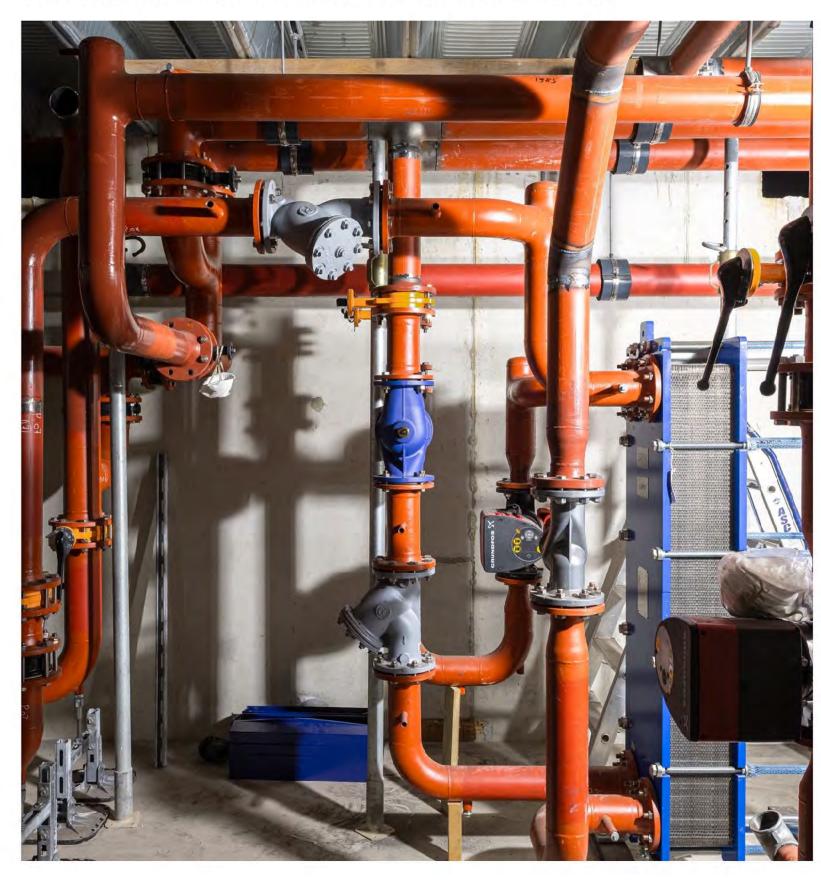




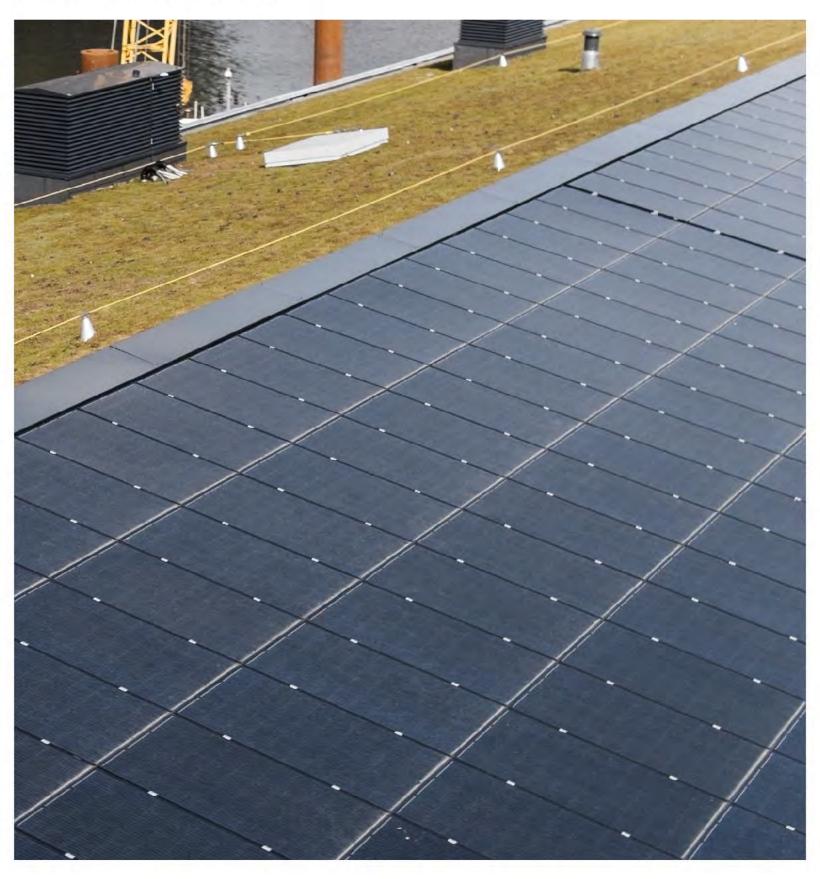




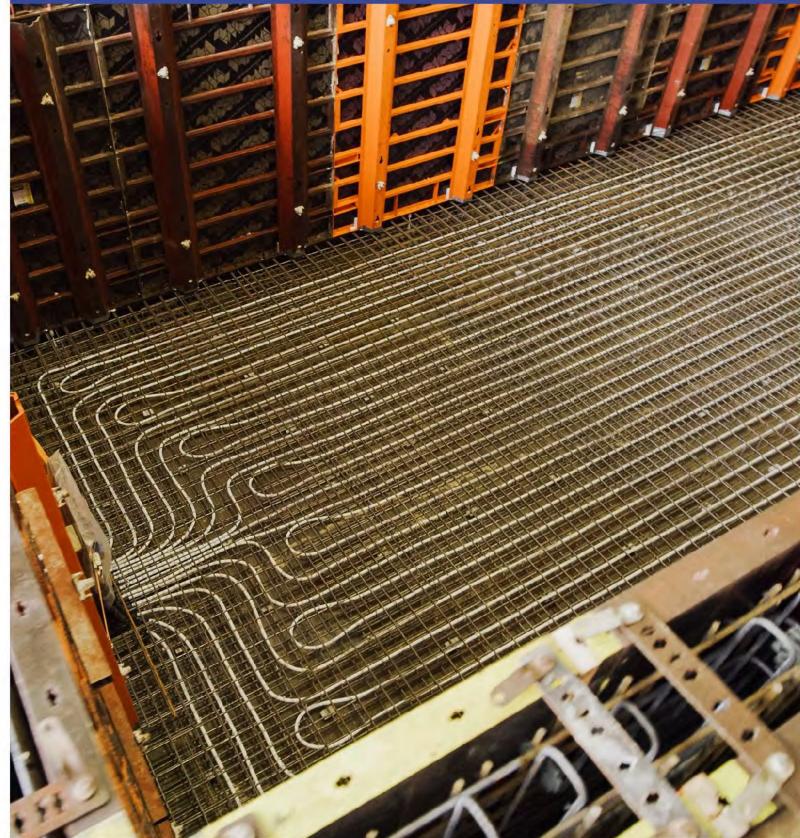
Installaties zijn uit het zicht in de kelder (bakken)



870 m² zonnepanelen



In de bodem van deze bakken bevinden zich ingestorte leidingen die energie uitwisselen met het oppervlaktewater van de Maas.





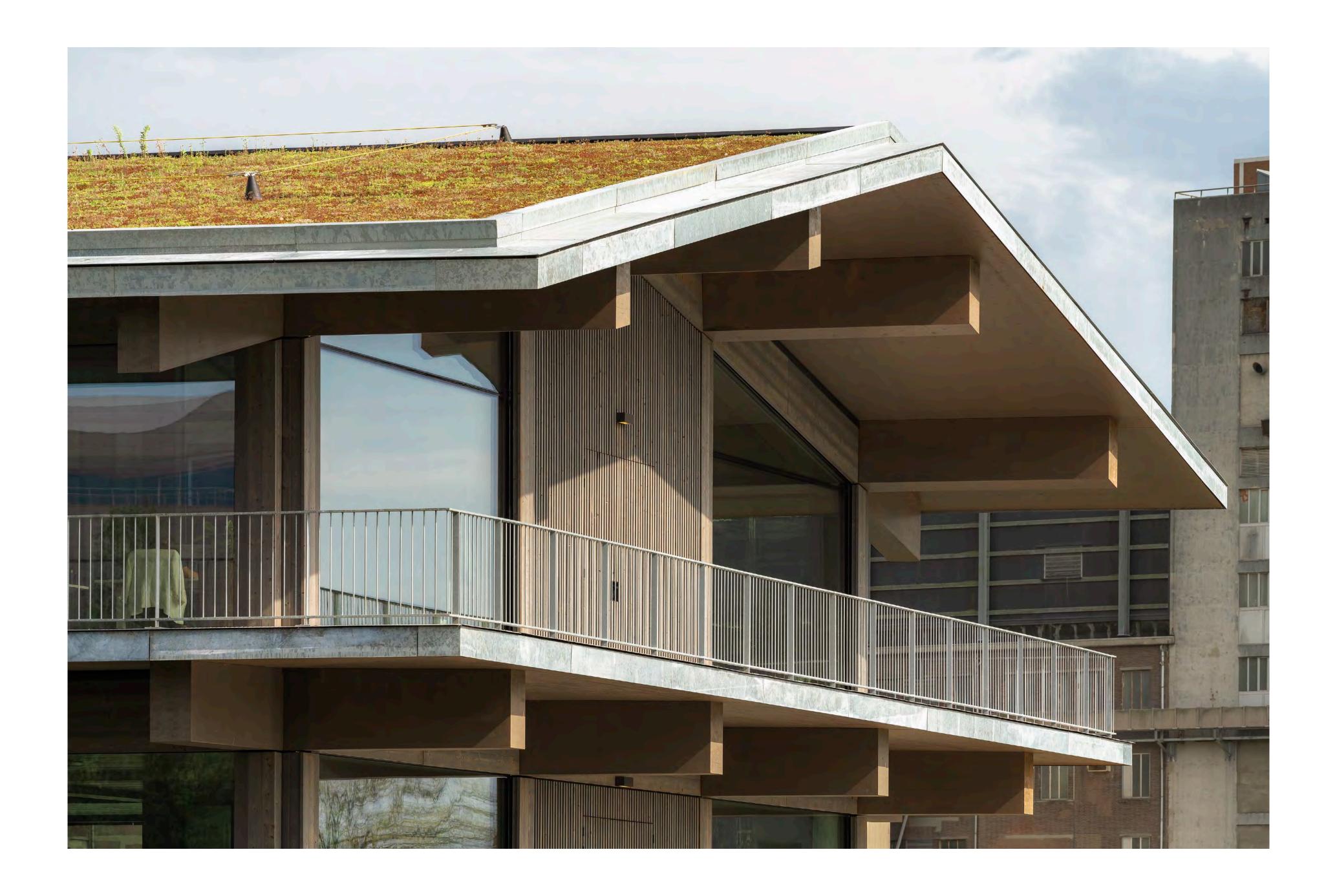
BUILDING

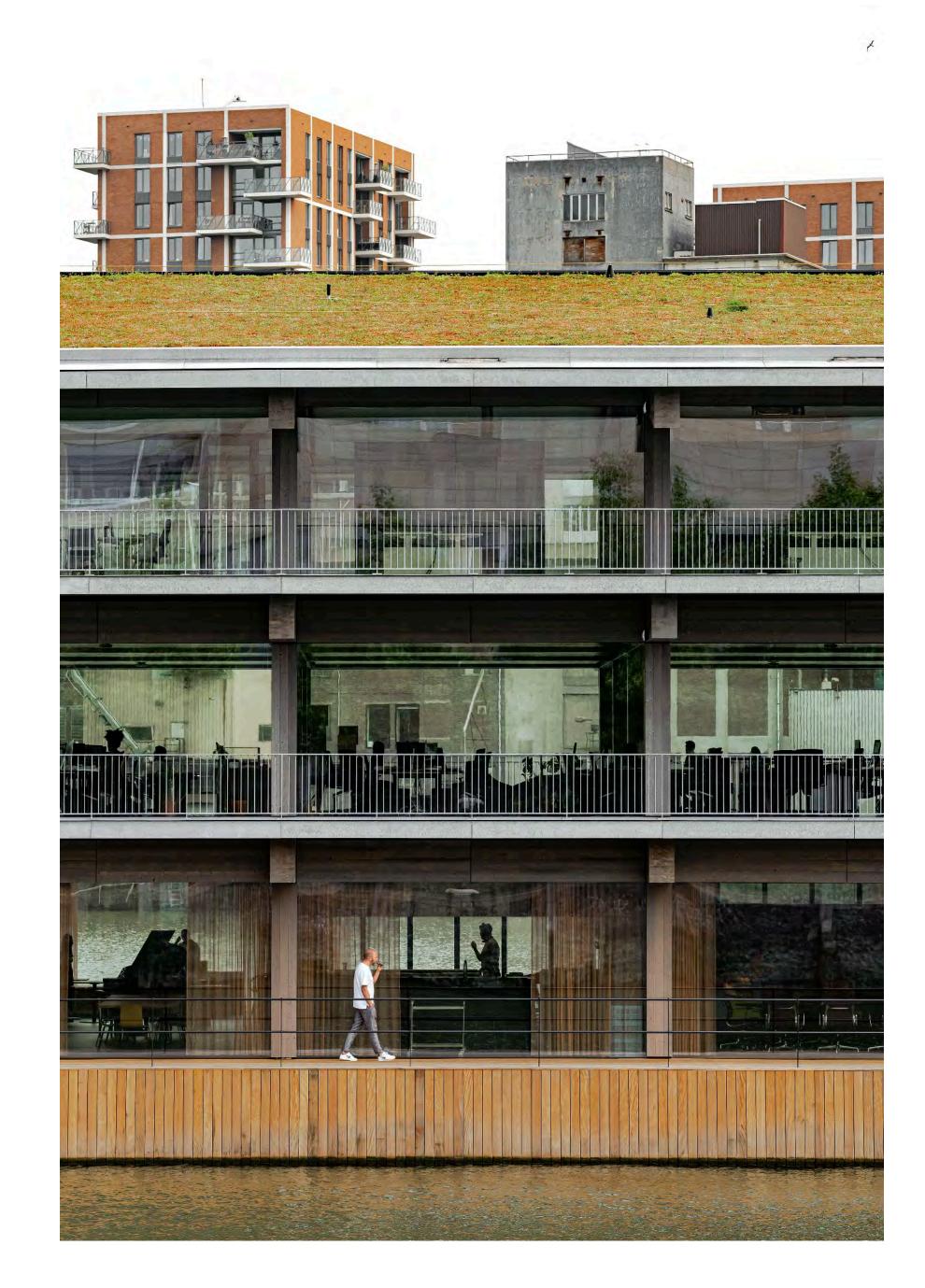




















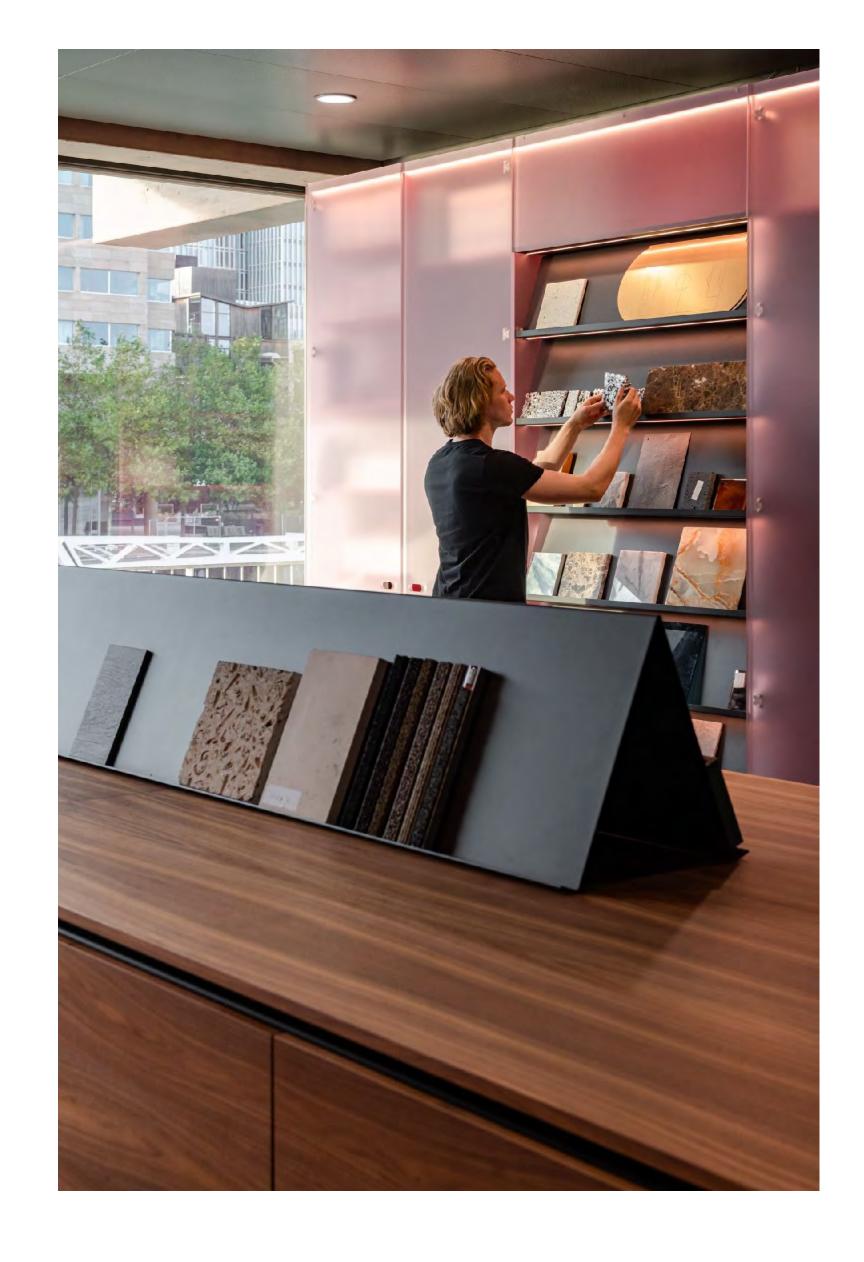








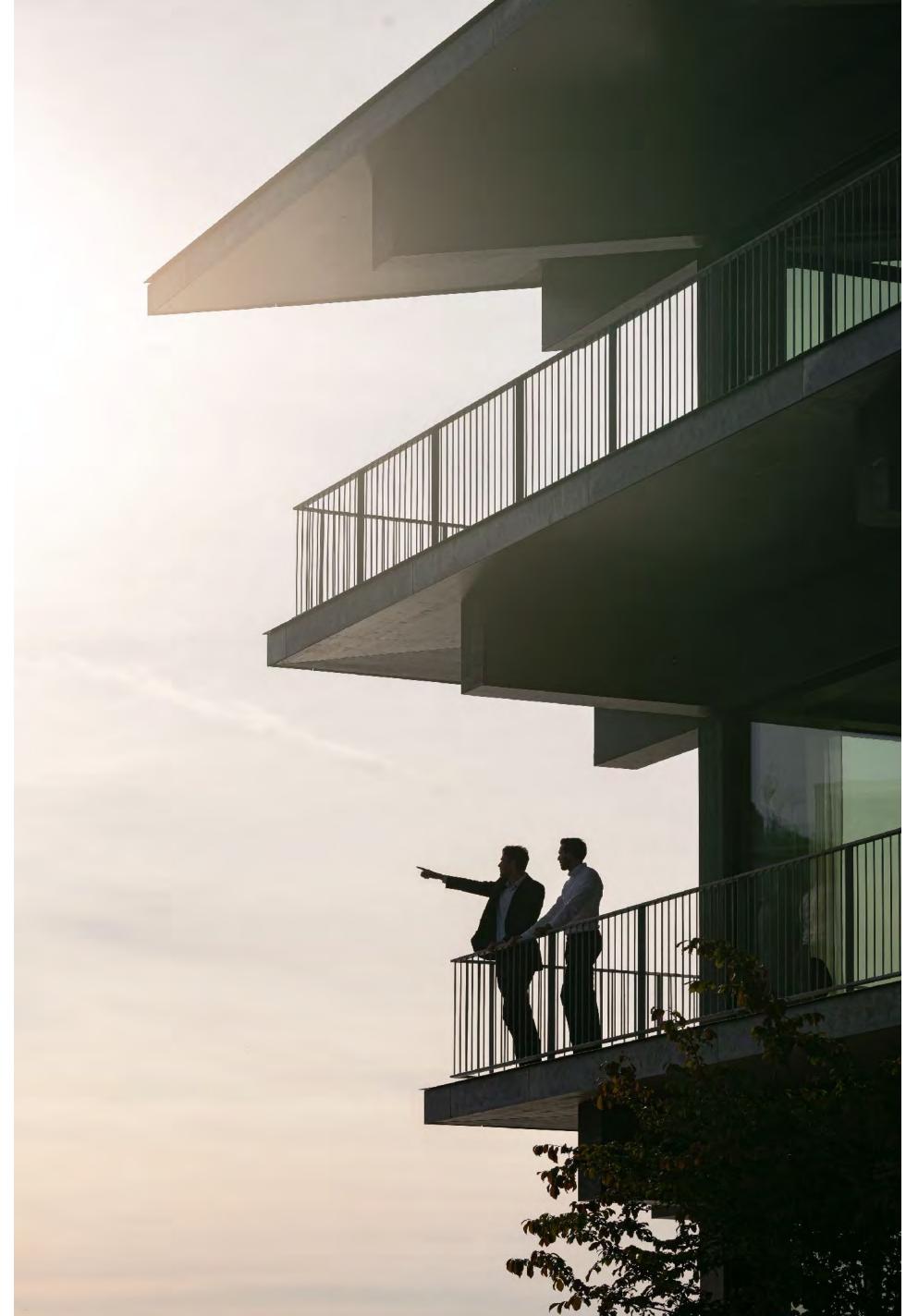












NNEOWDDEEAALL

6

Lessees Global Center on Adaptation Powerhouse Company RED Company Gemeente Rotterdam ABN Amro

Restaurant Putaine

Office LFA

3,124

Restaurant LFA

478^{M²}

Total LFA M²

This means that 54 households can

be provided with electricity per year.

3,602^{M²}

ENERGY POSITIVE

 $504 \rightarrow 5$

504 solar panels measuring 870 m². These generate approximately I54 MWh of electricity on an annual basis.

1

109%

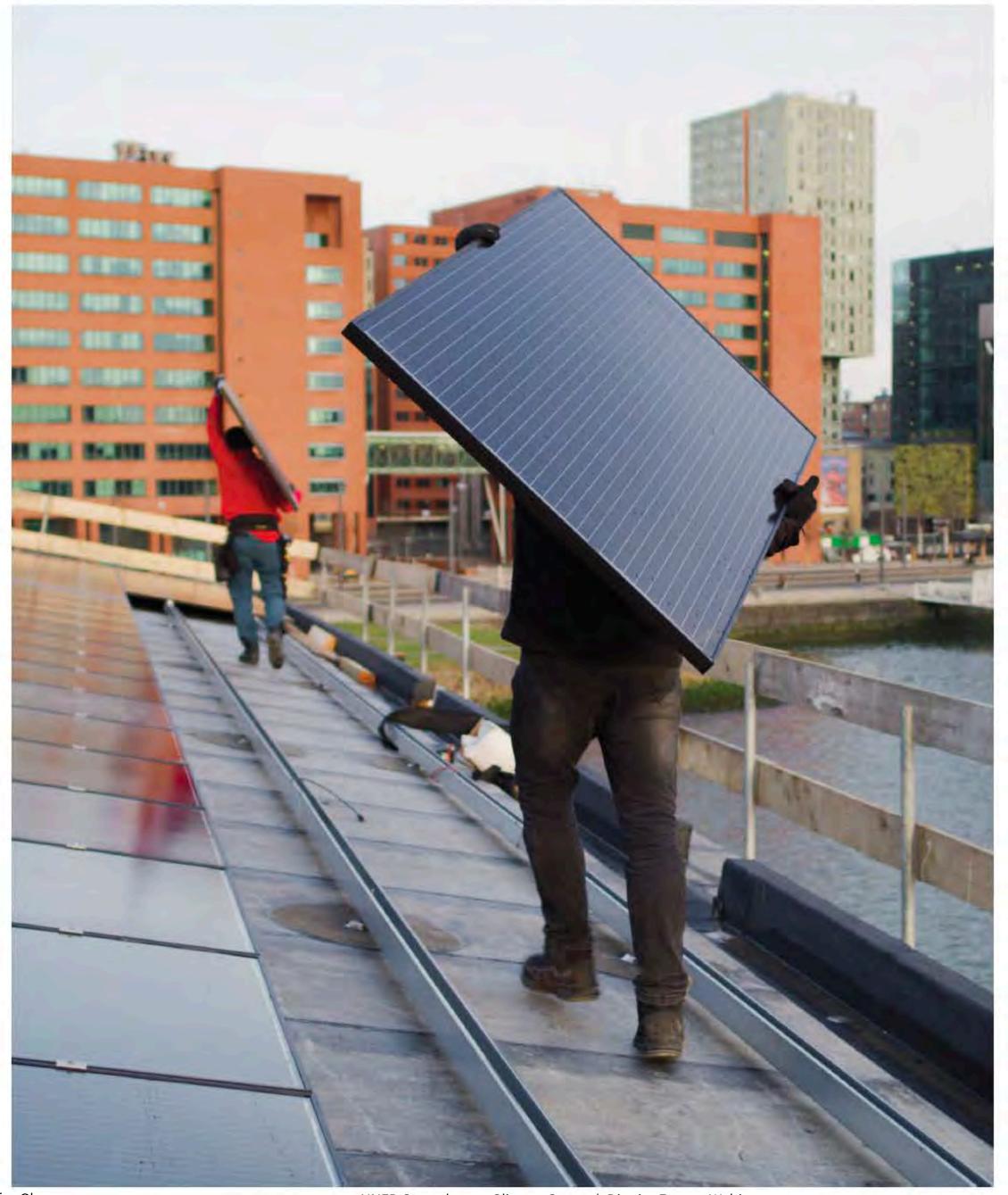
The solar panels generate 109% of the annual energy requirements sustainably. In other words, more energy is produced than is needed.

-0,12

An energy performance score of E/E = -0.12 is achieved for the building. The score being negative implies that more energy is generated than is needed throughout the year to heat, cool and ventilate the building.

A++++

Energy Label



6

Lessees
Global Center on Adaptation
Powerhouse Company
RED Company
Gemeente Rotterdam
ABN Amro

Restaurant Putaine

Office LFA

3,124

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478 M2

Total LFA M²

This means that 54 households can

be provided with electricity per year.

3,602

ENERGY POSITIVE

504 →

504 solar panels measuring 870 m². These generate approximately I54 MWh of electricity on an annual basis.

1

141%

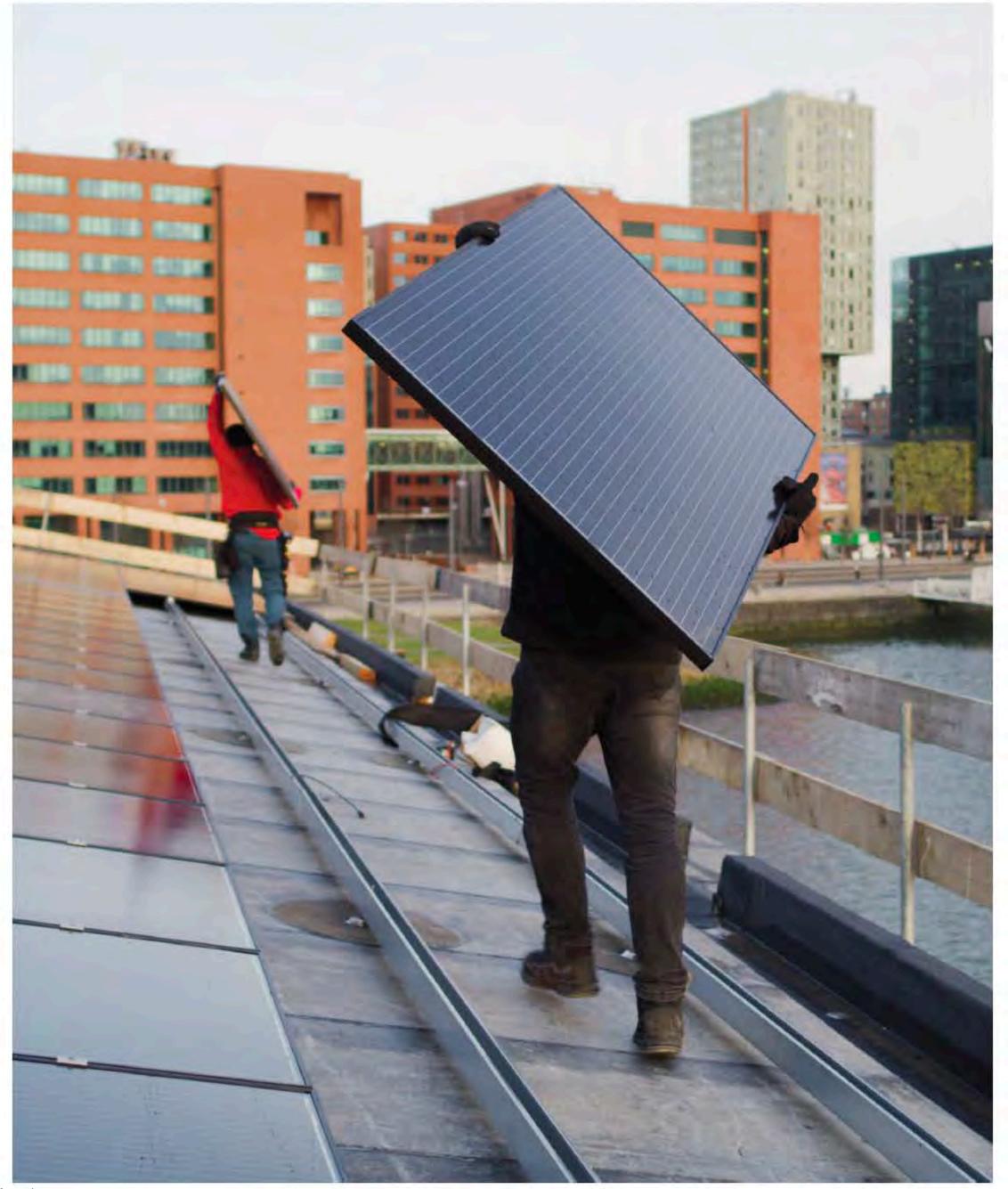
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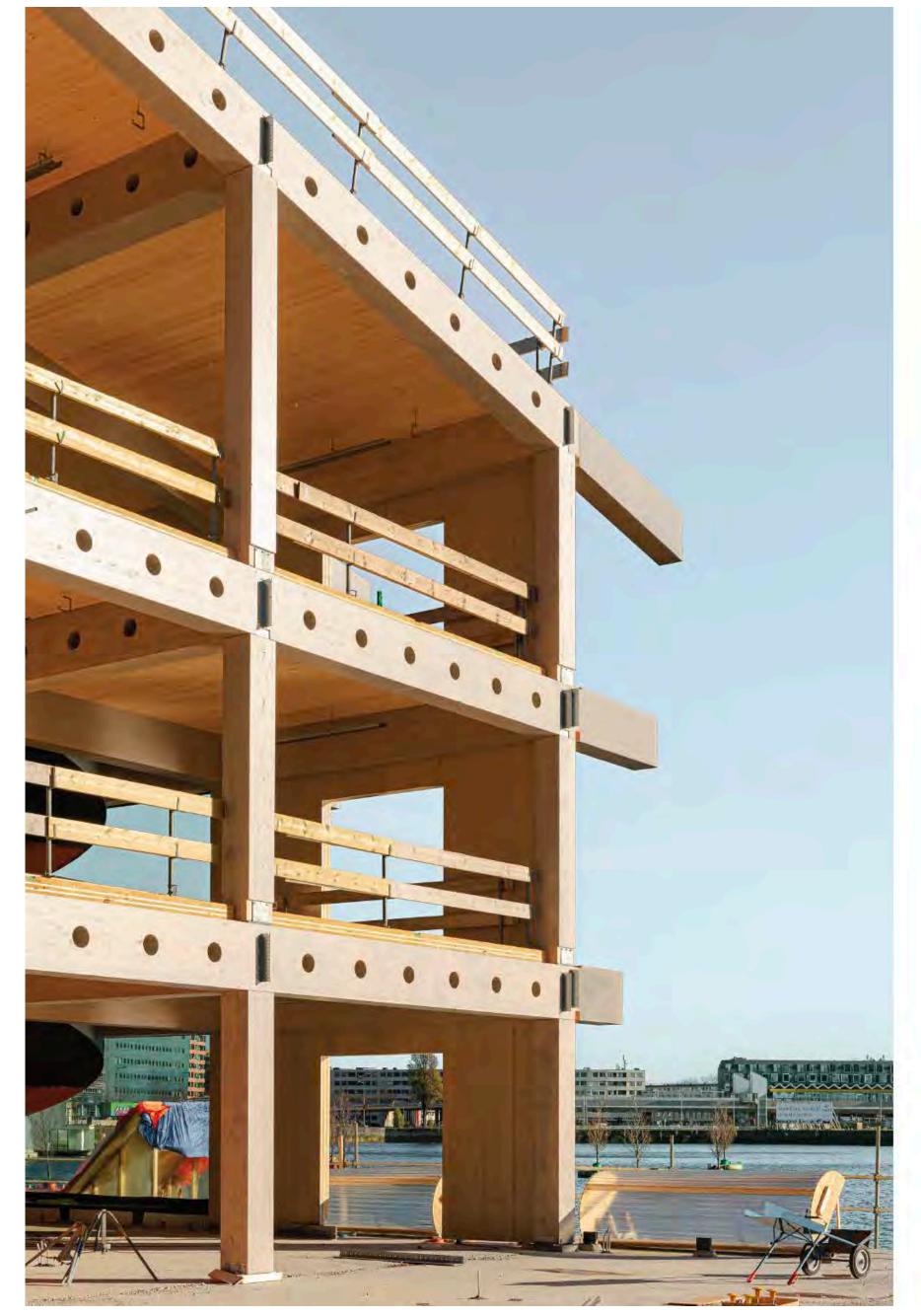
4 -0,12

An energy performance score of E/E = -0.12 is achieved for the building. The score being negative implies that more energy is generated than is needed throughout the year to heat, cool and ventilate the building.

A++++

Energy Label





CARBON NEGATIVE

1,600 m³ wood used, which stores 1,440 tons of CO₂

 \rightarrow 10,160,000 $^{\text{\tiny KM}}$

1,440 TONS

Powering a European home for 320 years

Furthermore, by using wood as a material instead of concrete, I200 tons of C0, are not emitted / have been saved

FOR is built out of 1,600 m3 of FSC/PEFC sustainable wood sourced from German forests close to the construction site. This equates to 1,440 tons of embodied carbon, equal to 10,160,000 kilometers driven by car, or what's required for a European home to be powered for 320 years.

All wood used has the PEFC quality mark. The international PEFC quality mark guarantees that wood comes from a sustainably managed forest and that the forest is preserved.

ECOLOGICAL

822 10

BREEAM OUTSTANDING

Green sedum roof Having a green roof is positive for water retention and encourages biodiversity

Ecological facilities 4 nesting boxes 4 bat boxes 2 insect hotels

Glass Windows A glass front consisting of 54 fully triple glazed windows measuring 972 m2. This promotes natural light, which ultimately lead to better health and lower energy costs.

Sustainability certification

Main contractor

Bouwcombinatie FOR - Valleibouw en Bouwbedrijf Osnabrugge

Floating foundation contracter:

Hercules Floating concrete

Subcontractor timber structure

W.u.J. Derix GmbH & Co.

Façades

iFS Buildings Systems BV

Installations

Roodenburg Installatie Bedrijf

Developer

RED COMPANY

Project management

DVP

Engineering floating foundation

BARTELS & VEDDER

Engineering wood structure

SOLID TIMBER

Consultancy

DWA